**Lance Wu**

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***Summary***

More than 19 years of IT professional experience meeting and exceeding expectations in various positions, such as Developer, Tech Lead, Architect, Project Manager. I have designed and implemented a wide variety of systems and brought them to production. My major strength includes system analysis, architecture design, and application development. In technical perspective, I have hands-on skills on Java, Vue.js, Spring Boot, Spring Cloud, Redis, Mongo, Microservices, Tibco BW, BPM, ELK, Kafka, Docker, Kubernetes, AWS. Besides that, I have extensive production support experience. My domain knowledge includes Finance, Healthcare, Retail, Import/Export, and Entertainment.

***Professional Experience***

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| **ConSem ICT Inc.** |
| Aug 2024~Now |
| Sr. Engineer |

**Client: Wistron Medical Technology Corp.**

**Project: Ward Info. System (WIS)**

Aug 2024~ Now

Ward Info. System (WIS) is a real time integrated patients information system. It rapidly collects patients’ symptoms in different phases. It displays patients’ current and past important illness information, real time vital sign information, and abnormal value alert.

Major Responsibility

* **System analysis and design** for Intake and output detail records service, drainage trend diagram service
* Use **Java Spring Boot** to develop IO detail services and drainage trend service, and so on.
* Use **Docker** to deploy and run micro services in SIT
* Use **Google Cloud Platform(GCP)** to hold docker container and run API

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| **Yuanta Bank** |
| Apr 2022~Aug 2024 |
| Sr. Engineer |

* Develop Yuanta Bank **mobile** **App**, such as history transaction search, foreign currency exchange
* **System analysis and design** for KYC and FFIDO
* Use **jQuery** to develop front end mobile **App** pages
* Use Java to implement **RESTful API** for back-end system to connect Taiwan dollar system and foreign currency system
* Written **RFC document** for FFIDO requirement- customer information sharing and corporate asset overview
* **System support** for Mobile App, WebATM, and Push server

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| **MiTAC Information Technology Corp.** |
| Apr 2019 ~Apr 2022 |
| Sr. Engineer |

* **Architecture** **design** for foreign exchange system (MiWBS 2.0 RESTful API)
* Use Java **Spring Boot** to implement **RESTful API**
* Develop User Management **MicroService** and redirect MiWBS login process to User Management
* Use **Vue.js** to develop front end application
* Use **Docker** and **K8S** to package and deploy MicroService.
* Collect system logs through **Kafka** and export to **ELK** for central log management.

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| **Nordstrom** |
| Feb 2017~ Jul 2017 |
| Sr. Engineer |

* **Tibco BW 5.13** Migration Effort  
  -Used **EMS** as **ESB** backbone  
  -Deployed services by using **Tibco Admin**  
  -Utilize **Jenkins** to realize CI/CD  
  -Used **Soap UI** to test web services  
  -Monitored **EMS** service by using **Gems** and get queue information
* Help introduce Microservices architecture  
  -Used **STS/Spring Boot** to build **Microservice**  
  -Deployed Microservice to **Docker**
* Experiment DataLens **Big Data**  
  -Used **Kibana** as user interface  
  -Utilized **ElasticSearch** as data search engine  
  -Collected and filtered logs by using **Logstash**

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| **TCS** |
| Oct 2015~ Feb 2017 |
| Consultant |

**Client: Citigroup**, **Irving**, **TX**

**Project: Fusion Commercial**

Oct 2015~ Oct 2016

Complete the Build the backend system changes and build for the required to commercial digital servicing on the Fusion Platform. This project contains delivery elements for the Commercial Credit Revolving Credit (CRC) product.

Major Responsibility

* Provided architecture design recommendation for Fusion Commercial including Global payment unit(GPU), PROX, Account Summary, SignOn, and Registration
* Performed **MicroService** POC for TPS(Transaction Processing System) through **Messaging Bus(MQ)** by using **Java Spring Boot(Spring Tool Suite 3.7.2)**
* Worked on UserManagement MicroService by using **Java Spring boot**
* Worked on **Gemfire** as Micro Service cache **memory grid** by using **Java Spring Data** to access temporary data. The work includes setup local Gemfire server so Micro Service acts as client to access the cache.
* Tested and found major **Java MicroServices** **system performance** issue and provided feedback to the team
* Implemented JAVAWeb Services based on SOA architecture with SOAP and WSDL.
* Used Pivotal **Cloud Foundry** to deploy Java web services
* Evaluated testing tools and performed Agile **Java Test Automation** and **Test Driven Development** by using Selenium
* Participated the **Gemfire Cache** elements discussion to help on determine which elements stay in the memory grid
* Worked on IBM **API Management** (Gateway) V3 to configure and setup APIs by using consumer(developer) and provider(APIm) portals.
* Worked closely with **API Governance** to ensure the interface spec is compliant and provided streamline recommendation to customer.
* Analyzed API Governance Pain Points and provided agile solutions based on **COBIT 5** and **TOGAF** Framework
* Used **Tibco BW** 5.8 to implement, build, and deployed the services which connect to backend systems such as uAuth, FDR, DCF, Kana, and etc.
* Used **Jenkins as CI/CD** to build Tibco BW services, such as Registration Verification, SignOn, CheckUserID availability, CreateUserProfile, AccountSummary... and etc.
* Joined **Agile Sprint planning, grooming, Retro** by using **JIRA** to track EPIC, feature, story, task, and defects
* Communicated with **offshore team** regarding daily task and issue and ensured all needs from offshore are taken care of
* Used **RTC**(IBM Rational Team Concert)/Rational Jazz Team Server to access and monitor code baseline and build history
* Provided Fusion Commercial July release **Consolidated Gaps, Solutions, Dependencies, Risk and Mitigation Matrix** and CIL(Citi Integration Layer) and **Transition Architecture** based on TOGAF

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| **Wipro Technologies** |
| Jan 2012~ Sep 2015 |
| Architect |

**Client: Capital One, Richmond**, **VA**

Dec 2014~ Jun 2015, Java Architect

Project: Reward Reinvention program. The Rewards team is migrating the rewards servicing platforms from its current instance at the third-party vendor (Epsilon) onto Capital One enterprise standard platforms. The first redemption experience that will be replatformed is the one to support the Purchase Eraser (PE) functionality.

Major Responsibility

* Worked on **Java Responsive Web Design** POC for Purchase Eraser and gave knowledge transfer to developer
* Implemented JAVA Web Services based on SOA architecture.
* Used **AngularJS** and **Spring Framework** to build audit logging logic for RTM (real time machine) RESTful API call with EDW team
* Implemented Site Catalyst logic in **Java AngularJS** page for Purchase Eraser (**MQ-messaging**) through **JavaScript**
* Participated **Java Audit Logging** onboarding meeting to go through audit logging requirement (upf database using sql developer)
* **Tea Leaf**- Participated on-boarding meeting with Tea Leaf team to go through Tea Leaf requirement (JavaScript for NPI tagging)
* Full **Integration Test** for PE from TS2 transactions, TLP(reward platform), PostgreSQL redemption history to mongo redemption suite(RSID) including testing in **Amazon Web Service** cloud platform.
* Worked with **eAPI** team on Transactions (ccEnhancedTransaction) and Initiate Redemption Order(IRO) APIs related APIs call
* Experimented **Big Data** (Hadoop Data Lake/HBase(Key-Value) and **MicroServices** (using Docker)
* Used agile methodology throughout Reward Purchase Eraser project
* Used Sauce Labs to simulate IE browser behavior in order to perform cross browser integration test
* Use **Version One** to tract story and create tasks for the assigned stories
* Participated Reward **FAQ, Term&Condition, and Get Check by Mail** effort during PSI4. (Potential Shippable Increment/Release)
* Used **RubyMine** 7.1.2 to import Cucumber feature(scenario), yml config(cert,password,url)/step\_definitions(rb) files and ran automated test for transactions @rest API call and received transactionEntityCollectionResponse from DEV environment

**Client: Tyco IS**, **Boca Raton**, **FL**

Jun 2014~ Nov 2014, Business Analyst

Project: GoTC. GoTC(Go to Cash) is a business driven program to improve the order to cash systems and processes in TycoIS.

Major Responsibility

* Conducted and participated **business workshops to gather, validate, and review requirements**, such as business context, key identifiers, and business rules with corresponding business owner. The involved requirements include, but not limited to, tax calculation, install base, procurement, project, and service contract.
* Created and **maintained service deliverable matrix** that categorizes and identifies potential **enterprise level APIs**.
* Shared architecture design practice with customer technical lead and architect
* Elicited and interpreted business requirements gathered from business owners and translates the requirements into functional specifications, including tax calculation, install base, procurement, project, and service contract
* Produced **use cases documents, interface specification documents, mapping documents, high level process diagrams** for identified requirements
* Analyzed different **Oracle E-Business Suite ERP modules**- such as Account Receivable, Account Payable, Project Costing, Procurement, and Time and Labor since Oracle E-Business Suite are major destination system that APIs are connecting with.
* Analyzed **Siebel Compass** (Sales Management) Prospecting, Lead Generation, Create Quote, Sales Contract modules to gain the major source system APIs interface.
* Worked with vendor- GetPaid, to gather and confirm functional requirement
* Provided help to less experienced business system analyst

**Client: US Bank Corporation, Dallas, Texas**

April 2013~ Feb 2014 Tech Lead/Coordinator

Project: Enterprise Service Development- Multiple projects

Major Responsibility

* Managed Wipro team in US Bank Dallas location
* Analyzed business requirement and produced deliverable matrix
* Designed and validated XSD/Schema and web service creation according to project requirement
* Performed POC for complex web services such as AlertMaintenanceService using Tibco BW, EMS
* Led onsite and offshore team to achieve project goal
* Worked with customer to streamline development process
* Coordinated and communicate onsite and offshore work effort for enterprise services development; area includes **account services, customer services, transaction services, mortgage services, alert services, IVR services**
* Performed code review and unit test for offshore developed services
* Dev/IT/UAT defect coordination and correction.
* Helped on acquiring Wipro resources to work on the project
* Reviewed development plan with the customer and provide resources to work on the deliverables
* Provided weekly status report and resource utilization report for management and customer review

**Client: FedEx** **Corporation**

March 2013, Consultant

Business Agenda: Corporate Systems Assessment

Major Responsibility

* Performed Due Diligence for FedEx Corporate Systems Assessment
* Analyzed more than 40 applications/systems Interfaces
* Interfaced with FedEx financial system managers and director to find out the system integration points
* Provided application integration resource assessment

**Client: CitiMortgage, CitiGroup IRVING TX**

Jan 2012 ~ Feb 2013 Tech Lead

Project: Universal Workflow - COSMOS initiative is a multi-phase, multi-year Universal Workflow program which will eventually replace the CFI originations platform. Also, several new enhancements will be made to COSMOS system. The business objective is to reduce the underwriter expenses by 20%.

Major Responsibility

* Provided technical estimate for COSMOS R3/R4 and Default projects
* Performed Risk analysis for development related tasks, such as namespace change.
* Created Java/Servlet based web application to retrieve service logs by using Eclipse
* Used Enterprise Architect to create UML diagram, such as Sequence Diagram, Activity Diagram, Use case diagram.
* Joined architecture meeting and drove architecture direction by promoting the concept of Tibco BW as orchestration layer as well as key role in the enterprise architecture.
* Setup development policy for the team, such as development process, JMS(Messaging) queue/topic naming convention.
* Worked with offshore development team to resolve development issues
* Constructed POC for DRI integration and CitiLink Integration
* Designed stepping engine for multiple Rulesets requirement for Loss Mitigation Adapter
* Joined the performance review session and provided technical insight to improve overall system performance
* Participated project life cycle from requirement collection, use case elaboration, high level design, low level design, construction, test, and production

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| **CIGNA Corp.** |
| Jun 2005-Jan 2012, Denver, CO |
| EAI Tech Lead |

* Main Technology: Tibco, Java, EDI, SOA, BPM, ESB, EMS/JMS
* Led EAI projects effort including architecture design using UML, implementation, unit/integration test for projects such as CSI, PPACA, EIVR program.
* Mentor other team member
* Reviewed Business Requirement Document and provided IT feedback
* Managed application deliverables, including, but not limited to, SA document, Design document, Codes.
* Provided high level and low level project estimates during different project phases
* Provided project resource and allocation
* Provided coding direction and guidance to developer to build SOA, AI, HIPAA EDI services.
* Communicated with other project managers and application team throughout the project cycle
* Extensive knowledge on software development cycle, such as SDLC, Agile.

Major Accomplishments:

***CIGNA Select Initiative Program***

* Temp ID Card project  
  Communicated with the vendor- FiServ to create a temporary ID card function in member portal and employer portal. Coordinated the working effort with the vendor and development teams. Worked with business to clarify requirement. Tracked project progress and provided resource as needed.
* EOP project  
  Worked with the Facets team and the vendor- Prinova to create electronic format of EOP document. The electronic document is used by EIVR application. Coordinated with the vendor- Nuance on creating the EOP function in EIVR system. Tracked project progress and provided resource as needed.
* BLXP project/ LPI project  
  Worked with the business and SA to clarify requirement and analysis specification. Work with the vendor- Nuance, and developers to create the mapping document and design document. Tracked project progress and provided resource as needed.
* Big4 project  
  Worked with the vendor- Nuance, to create a new web service to retrieve new group Big4 elements. Communicated with multiple functional teams regarding the new change. Tracked project progress and provided resource as needed.
* PBM project  
  Worked with the vendor-Argus, to go through the new NCPDP format change and regression test the new change. Communicated with the project team regarding the business flow and test scenarios. Tracked project progress and provided resource as needed.
* Relationship Code project  
  The relationship code project provides flexible technical approach to reflect potential relationship codes across multiple systems. Worked with business and the clients- Member Portal, Employer Portal, EIVR, and SPP to update the relationship codes.

***EIVR Enhancement Program***

* TPA enhancement project  
  The TPA is one of our business focus area. Due to the new business requirement, EIVR system needs to incorporate the TPA member attribute. The TPA member shall have different hearing and speaking sentences. The tasks in the project includes communicating with the vendor- Nuance, to update the new TPA attribute in order to reflect in the EIVR system
* Remark Code project   
  Claim remark code provides the member detail description regarding a claim detail line. The remark code should reflect on the member portal, employer portal, SPP, and EIVR system.
* YTD Accumulation project  
  The YTD Accumulation project provides the clients claim accumulation information. The major responsibility include coordinating Facets team, ODS team, member portal team, employer portal team, and EIVR team on this effort. Tracked project progress and provided resource as needed.

***PPACA Program***

* Benefit and eligibility Update project  
  Due to the healthcare reform, one of the new changes is member benefit and eligibility update to provide improved member benefits. The tasks includes communicating with the clients to retrieve new member benefit and eligibility information, working with other functional mangers on the development approach, providing project resource, and tracking project progress.
* Argus PCT project  
  The Argus PCT project provides a variety of code set to the PBM system. The tasks includes communicating with the business regarding the PCT code set, working with the project manager on identifying the project impact and scope, providing project resource, and tracking project progress.

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| **TIBCO PSG** |
| Oct 2005- May 2006, Memphis, TN |
| Architect |

**Harrah's Entertainment**

* Defined multi-tier enterprise architecture capable of supporting all existing products.
* Designed service-oriented architecture (SOA) optimizing inter-component messaging and interaction. (EMS)
* Created the data model serving as the heart of the new system.
* Developed test-driven development strategy guiding use of the JUnit unit testing framework.
* Used Java Websphere to interact with Tibco BW services
* Created Pseudo Random Number Generator logic code.
* Proposed guidelines for proper use of off-shore development resources.

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| **Center for Systems and Software Engineering, USC** |
| Jan 2005- May 2005, LA, CA |
| Research Assistant for Dr Barry Boehm |

Dr Boehm created the spiral model of software development, in which the phases of development are repeatedly revisited. This iterative software development process influenced MBASE and extreme programming.

As a Research Assistant for Dr Boehm, My major responsibility is to performed code duplication analysis for each program provided by the center. After analyzing the program, the statistical result is sent back to the center to summarize the code duplication rate for further research.

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| **Inventec Incorporation** |
| Jun 2003-Jul 2004, Taipei, Taiwan |
| Engineer |

* Analyzed business requirement
* Provided high level architecture design document
* Created prototype for customer service system by using Case-Based reasoning architecture by Using Java, JSP, and Servlet
* Communicated with Offshore team regarding project deliverables
* Worked on cooling control system for HP blade server
* Implemented MIPS coding for the cooling control system for HP blade server. Used Microchip Tech.'s MIPS chipset to control the cooling system

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| **Universal EC Incorporation** |
| Jul 2002-Jun 2003, Taipei, Taiwan |
| Software Engineer |

Member of Process Improvement Group

* Created process plan for Process Improvement Group to improve software development process.
* Analyzed software best practices and development models to apply to UEC's software development process.
* Recommended agile methodologies to support rapid iterative software development.

Web applications for TICE's web server

* Designed and developed new services for customer side and administration side based on internal TICE architecture. TICE is designed for exchanging data with Custom of Taiwan (EDI). TICE web service provides administrator ability to perform data tracking, analyse, inquery, and update functionalities.
* Provided the Java J2EE Model-View-Controller architecture for the new services implementation

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| Feng Chia University, Taichung, Taiwan |
| Jun 1997-Sep 1999 |
| Group Lead, Scout Association |

* Led a group of members to train elementary school scouts.
* Planned and provided training classes.
* Taught the youth how to lead various activities.

***Education***

Engineering Management, Master of Engineer, 2009-2011, University of Colorado- Boulder

Computer Science, Master of Science, 2004-2005, University of Southern California

Management Information System, MBA, 1999- 2001, Ming Chuan University

Applied Mathematics, BS, (Minor: Computer Science) 1995-1999, Feng Chia University

***Certification***

***COBIT 5 Found***-2016; ***TOGAF 9 Certified***- 2015; ***Certified Scrum Master***-2016; ***PMP***-2009

***Certified Scrum Professional***-2016; ***Certified Scrum Product Owner***- 2016

***AWS Certified Cloud Practitioner-2024***