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Summary

Over the past *decade*, I've immersed myself in the dynamic intersection of *IT* and *business transformation*, cultivating a rich tapestry of expertise and a deep-seated passion for pioneering solutions. My journey has been defined by a relentless pursuit of *excellence*, characterized by an adept balance of *technical acumen* and *strategic foresight*.

At the heart of my journey lies *Python*, where I've honed my skills in crafting elegant solutions that bridge the gap between *complexity* and *usability*. From architecting robust web applications using *Django* and *Flask* to harnessing the *agility of FastAPI*, I've led teams in delivering solutions that not only meet but *exceed expectations*.

Beyond *Python*, my foray into *data science* has been instrumental in unlocking actionable insights from vast reservoirs of *data*. *Regression analysis*, *classification models*, and *time series forecasting* have become second nature, enabling businesses to navigate the intricacies of *decision-making* with *confidence* and *clarity*.

However, what truly sets me apart is my commitment to *collaborative leadership*. Whether it's guiding cross-functional teams through *Agile SCRUM sprints* or orchestrating seamless deployments with *Docker* and *Kubernetes*, I thrive in environments where *teamwork* and *collective success* are paramount.

From the corporate *boardrooms* of multinational giants to the dynamic landscapes of *agile startups*, I've traversed the *tech terrain* with *agility* and *adaptability*. Each *project milestone* has served as a *catalyst for growth*, propelling me to continuously refine my craft and push the *boundaries of what's possible*.

As I stand on the *precipice* of the next chapter in my journey, I bring with me a wealth of *experiences*, an *insatiable hunger for innovation*, and a *steadfast belief* in the *transformative power* of *technology*. Armed with this *ethos*, I am eager to *collaborate*, *innovate*, and *lead* in shaping the *digital landscapes of tomorrow*.

Education

Computer Science

New York University • New York, NY
05/2014

My academic journey has been quite fulfilling. I dedicated myself to *Computer Science* at *New York University*, where I pursued my *master's degree*.

This period was not just about obtaining a degree; it was a transformative experience that honed my *problem-solving skills*, fostered my *creativity*, and deepened my understanding of *technology's potential*. Beyond academics, I find solace and excitement on the *tennis court*. Tennis isn't just a hobby; it's a passion that keeps me *energized* and *focused*. The sport teaches me *resilience*, *strategy*, and the importance of *teamwork* and *sportsmanship*.

Combining my *academic achievements* with my love for *tennis* paints a holistic picture of who I am—an individual dedicated to *continuous growth*, both *intellectually* and *personally*. It's this blend of *academic rigor* and *extracurricular passion* that fuels my *drive* and keeps me engaged in all aspects of life.

Experience

Senior Consultant

Mindlance • Raleigh, NC
08/2022 - 02/2024

- Led the **Nike Travel project** at **BCD**, overseeing the retrieval of booking data from the BCD booking application and hotel and flight book endpoints.
- Designed comprehensive **data models** for **BCD** and **ZEROFOX** projects within the Snowflake platform, optimizing

data storage and retrieval processes.

- Developed **Python helper functions** and operators in **Airflow** to automate the creation of pipelines for data processing and analysis, enhancing productivity and reducing manual intervention.
- Created robust **REST APIs** using the **Flask** framework to expose functionalities such as displaying air segments and hotel segments, ensuring adherence to industry standards and security protocols.
- Designed and implemented functional components for **list APIs**, facilitating seamless access to relevant data for users, and iteratively refining functionality based on user feedback.
- Implemented rigorous **unit testing** for all **REST services** to validate functionality and maintain code integrity, conducting **integration testing** to identify and address potential issues in data processing workflows.
- Actively participated in **agile** ceremonies including sprint meetings, reviews, and retrospectives, embracing adaptive practices to meet evolving project requirements and priorities.
- Leveraged **Snowflake** as the primary **database platform**, running transactions with multi statements effectively and ensuring seamless integration with **AWS S3** for data storage and retrieval.

Senior Software Engineer

Wells Fargo • Charlotte, NC
04/2020 - 08/2022

- Developed **REST APIs** for the admin module and user management.
- Implemented **Test-Driven Development (TDD)** framework and achieved code coverage for all APIs using **pytest** and **pytest coverage**.
- Engineered APIs for **cash calculation** utilizing **data science technologies**, particularly **statistics**.
- Designed and implemented APIs for **Equity Derivatives** and **Breach calculation**.
- Utilized **machine learning algorithms** to develop **prediction models** and integrated them with frontend visualization.
- Contributed to the backend **Extract**, **Transform**, **Load (ETL)** process development for staging and ingestion tables.
- Managed **Docker** and **Kubernetes** services and orchestrated **Continuous Integration (CI)** and **Continuous Deployment (CD)** pipelines.
- Led deployment processes across **Development (DEV), System Integration Testing (SIT)**, and **User Acceptance Testing (UAT)** servers.
- Participated in **daily scrum calls** and conducted **code reviews** to ensure code quality and adherence to best practices.
- Conducted **Exploratory Data Analysis (EDA)** using **Tableau** and Python libraries **(Matplotlib, Seaborn, Plotly Dash)** to identify trends and insights.
- Created **API documentation** and **process documentation** for clear understanding and seamless integration.
- Provided **training sessions** to team members on production deployment processes.
- Integrated backend code with frontend **Angular** framework and **Bootstrap 4** for seamless user experience.
- Leveraged **AWS services** including **Lambda, ECS, ECR, RDS, Auto Scaling, Elastic Load Balancer**, **AWS CloudWatch**, and **Sentry** for scalable and reliable infrastructure.

Python Lead Developer

McAfee • Santa Clara, CA
05/2018 - 04/2020

- Developed a **CERT VERIFICATION tool** for all **McAfee files** and implemented defect analysis mail sending using **Django** to stakeholders.
- Designed and implemented a comprehensive framework for **unit testing**, **functional testing**, and **regression testing** for **McAfee products**.
- Utilized **Django Rest Framework** to create a flexible testing framework that enables validation of products across multiple operating systems simultaneously, providing real-time results.
- Created **REST APIs** in **Python** to connect **vSphere** with multiple virtual machines (VMs) to serve as test runners.
- Developed **REST APIs** for adding test suits and test plans, executing tests, and publishing results.
- Implemented intelligent features in the framework to describe test script issues or product issues based on analysis logged in **Zira** and other categorizations.
- Conducted **defect analysis**, crash monitoring, and data analytics to improve product quality and performance.
- Demonstrated proficiency in machine learning models including supervised learning (e.g., **Linear Regression, Logistic Regression**) and unsupervised learning (e.g., **K Nearest Neighbor, Decision Tree, Random Forest**) using Python libraries such as **Scikit Learn, Pandas, NumPy, Matplotlib, Seaborn**, and **Plotly**.
- Deployed the **Django REST automation framework**, known as **Controller**, on a single **EC2** instance.

- Managed and monitored multiple instances with **Windows platform** for test execution using **Ansible**.
- Developed **Ansible YAML** task script files for executing different multiple files.
- Created APIs for provisioning **EC2 instances** in the cloud and configuring YAML files to execute **400 test suites** in daily executions.
- Leveraged **AWS services** for infrastructure management and deployment.
- Developed the front end using **ReactJS** with **Redux** for a user-friendly interface.

Software Engineer

LG Electronics • Charlotte, NC
06/2014 - 04/2018
- Spearheaded the automation of **Rest APIs** for **LG health watch**, encompassing script development for all API methods (**POST, GET, UPDATE, DELETE**).
- Conducted the initial project analysis, gathering necessary details of various tools to be converted for seamless integration.
- Managed the conversion of **Excel data to MySQL Schema** and facilitated data upload, ensuring accuracy and integrity.
- Developed **AngularJS-based report forms** for data visualization, utilizing **UI grid** for enhanced user experience.
- Implemented data editing functionalities and backend database storage mechanisms, optimizing data management processes.
- Orchestrated the creation of comprehensive reports with diverse fields, enhancing data insights and decision-making capabilities.
- Engineered calculation modules for **Excel macros**, streamlining complex computations within the system.
- Conducted rigorous fine-tuning and integrations, ensuring the robustness and reliability of the overall system.
- Acted as a **Software Development Engineer in Test (SDET)**, leading framework development initiatives for testing **Web OS TV**.
- Oversaw framework development and script execution, ensuring comprehensive test coverage and reliability.
- Conducted in-depth analysis of various business functionalities, identifying areas for improvement and optimization.
- Facilitated version upgrades and addressed thread hanging issues, enhancing system performance and stability.
- Developed **Rest APIs** for the **RI database** and played a key role in its integration and optimization.
- Designed system architecture and sequence diagrams, providing clear and structured solutions for complex problems.
- Detected and resolved database bugs for the **Customer API**, ensuring data accuracy and system reliability.
- Provided **training** to team members on framework execution and best practices, fostering a culture of continuous learning and improvement.

Skills

Python, SQL, JavaScript, TypeScript, HTML5, CSS, Django, FastAPI, PySpark, Pandas, NumPy, Matplotlib, Seaborn, Plotly Dash, Scikit Learn, React, Redux, Angular, Git, Docker, Kubernetes, AWS, EMR Systems, ECS, EKS, Terraform, Fargate, Lambda, EC2, S3, RDS, Auto Scaling, Elastic Load Balancer, CloudWatch, Glue, SNS, Jenkins, Redis, Apache Kafka, Selenium, Robot Framework, Appium, Jira, MySQL, SQL Server, PostgreSQL, MongoDB, Snowflake, Redshift, Customer service, Flask

Interests

Tennis, Movies, Gaming, Traveling, Cooking