

# Yassine Bouchoucha

Full-stack Typescript software engineer

[bouchoucha.yassine@gmail.com](mailto:bouchoucha.yassine@gmail.com) • [+21623096879](tel:+21623096879)

<https://www.linkedin.com/in/yassine-bouchoucha-165556100/> • <https://github.com/yescine>

## Summary

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Solving problems and designing solutions using scientific methods, industrial process and cutting-edge technologies and tools.

## Skills

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TypeScript • Webpack • Docker • Testing • Problem solving skills • Clean architecture • Next.js • LLM

## Work Experience

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### Senior Full Stack Engineer

Nov 2023 – present

[ip-label](#) • Full-time

Tunis, Tunisia

**Technologies:** Nx Workspace • Nextj • Langchain • AI/ML • LLM

- Solve app monitoring and APM issues for improved customer observability
- Develop a Chrome extension integrating Ekara RUM solution, helping customers extend their RUM capabilities for third-party apps
- Create CI/CD pipeline for deploying to private store and GPO mechanism
- Build appropriate backends for the Chrome extension
- Integrate Ecoindex and greenIT metrics in the extension
- Develop a best practices recommendation system for web scenarios, providing greater insight by using Langchain, LLMs, and basic ML algorithms to enhance reports and recommendations

### CTO

Jan 2021 – Oct 2023 • 2 yrs 9 mos

[Vital Tools](#) • Full-time

Tunis, Tunisia

**Technologies:** Next.js • GraphQL • CMS • Prisma • Apollo

- Integrated LLM & GPT for next-gen consulting platforms.
- Design MACH architecture ecommerce platform.
- Created back-office with Nextjs & Prisma for company management.
- Optimized landing page with Nextjs & headless CMS for better SEO & marketing
- Managed VPS for IT apps using portainer & third-party microservices.
- Build internal Contacts list using Hasura; sync with Mautic for mass email marketing.

### Principal Software Engineer & Co Founder

Sep 2020 – Dec 2021 • 1 yr 3 mos

[Vital Tools](#) • Full-time

Tunis, Tunisia

**Technologies:** MERN Stack • TypeScript • Webpack • Azure • Cypress

- Developed Multi-Tenant Saas project management tool using monolith MERN.
- Scale app to full ERP modules (CRM, CashFlow).
- Migrate to micro-frontends architecture and Typescript.
- Established CI/CD with GitHub actions for Azure/Heroku.
- Implemented e2e testing with Cypress and DOM testing using Jest.

## Team Lead

Sep 2021 – Oct 2021 • 1 mo

[Bidlight](#) • Part-time

Remote

**Technologies: MERN Stack • Three.js**

- Advanced build of v2.0 cost estimation & material viewer tools.
- Synchronized data from three.js to exported BIM model.

## Project lead

May 2020 – Sep 2020 • 4 mos

[AkeoPlus](#) • Full-time

Tunis, Tunisia

**Technologies: Node.js • React • AWS (Amazon Web Services)**

- Led project with React Js front-end and Nodejs backend.
- Synchronized API from ClickUp tasks to local project.

## Full-Stack Engineer

Jul 2019 – Apr 2020 • 9 mos

[Cocentris](#) • Full-time

Tunis, Tunisia

**Technologies: Node.js • React • PostgreSQL • Mocha • Electron**

- Built organization profile management app with React.
- Implemented CI tools: Jenkins & Verdaccio.
- Created Electron app for CSV-API data sync & tested with Mocha.

## junior engineer

Nov 2018 – Jun 2019 • 7 mos

[Cocentris](#) • Internship

Tunis, Tunisia

**Technologies: C++ • CMake • Fpga • Verilog • OpenCV**

- R&D on 3D stereoscopic camera for navigation & face tracking with Mojo FPGA.

## Instructor

Jun 2023 – present

[mit-polytech](#) • Contract

tunis, Tunisia

**Technologies: Odoo • Python • JavaScript**

- Web project for entry level IT engineer.
- ERP system for Master Degree.

## Projects

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### TCG Proxy Card Management and Design Collaboration

Jan 2024 – present

2 coworkers

**Technologies: No-Code • CMS • Digital Art • Digital Design**

Developed a digital asset management system for a TCG card game franchise using NocoDB, enabling efficient tracking of proxy cards with alternative art.

Collaborated closely with sales teams to optimize inventory and streamline operations. Also contributed to the design process, helping create card art and informational elements.

### YOLO-CVAT Utilities for Automated Annotation

May 2024 – Oct 2024 • 5 mos

1 coworker

**Technologies: YOLO • Computer Vision • Semantic segmentation • Python • Gradio**

Developed a CLI application with Gradio integration to streamline the automatic annotation process for YOLO-inferred images. Enhanced the efficiency of dataset labeling by simplifying the workflow for exporting and importing annotations to CVAT.

## **electron-ERP**

Sep 2020 – Mar 2021 • 6 mos

1 coworker

**Technologies:** MERN Stack • Heroku deployment

- SaaS project management tool with spreadsheet interface & 360° task view.

## **Education**

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### **Master's degree: mechatronic**

Sep 2016 – Jun 2019 • 2 yrs 9 mos

Electrical and Mechanical Engineering

Tunis, Tunisia

Grade/GPA: 3.5

- Fundamental of manufacturing process, Mechatronics.
- Skilled in embedded systems programming (C/C++) & FPGA prototyping with Verilog.

### **Bachelor's degree: physics**

Sep 2012 – Jun 2015 • 2 yrs 9 mos

FSB: Faculte des science de Bizerte

Bizerte, Tunisia

Grade/GPA: 3

- Utilized FORTRAN for scientific calculations in electromagnetism and quantum mechanics.

## **Certifications & Awards**

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Fundamentals of Deep Learning - [https://learn.nvidia.com/certificates?id=EB\\_I2JKYSPSJcboMo21udQ](https://learn.nvidia.com/certificates?id=EB_I2JKYSPSJcboMo21udQ) Aug 2024

Clean Code - <https://www.udemy.com/certificate/UC-55eace27-356a-452c-9ccf-707b53572da6/> Jun 2022

Docker & Kubernetes: The Practical Guide - <https://www.udemy.com/certificate/UC-2ebba467-170e-42f6-aa3e-2f8a862dd84f/> Sep 2021

## **Languages**

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**English** (Native or bilingual proficiency)

**French** (Native or bilingual proficiency)