MOHAMED AMOUSSAOUI

Software Engineer

Experienced software engineer with a specialization in C/C++, Rust, JS/TS, and Python, dedicated to problem-solving and independent work, committed to come up with creative solutions for complex issues.

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WORK EXPERIENCE

Backend Software Engineer -- Green land Maroc - Remote   11/2022 - 11/2023
- Designed and implemented a backend system for a mobile app for online grocery shopping resulting in a 30% increase in customer acquisition.
- Integrated 3rd party APIs.
- Deployed REST APIs in DigitalOcean using Platform as a service (Paas) and Managed Databases.
- Collaborated closely with the frontend developers to ensure seamless linking between the Frontend and the Backend.

Software engineer intern -- JESA institute - Remote   04/2022 - 10/2022
- Designed the work flow for a web platform for creating an managing task orders.
- Developed the web platform using ReactJS with Typescript and Microsoft SharePoint as API.
- Implemented a proxy server using sp-rest-proxy to facilitate testing the application without the need to deploy it each time to SharePoint resulted in a notable increase in development efficiency, reducing the time required for development tasks by approximately 20%.

Embedded systems specialist -- GR   12/2018 - 05/2019
- Designed, developed and maintained software and hardware components for embedded systems.

SKILLS

Languages: **C, C++, Rust, JavaScript (es6), TypeScript, Python.**
Frameworks and Cross-Platform: **Node.js, NestJS, Django, Django REST framework, ReactJS.**
Databases: **PostgreSQL, MySQL, MongoDB.**
Tools & Technologies: **Unix, Git, Docker, Kubernetes, TypeORM, Vagrant, Redux, ArgoCD, Jira, Azure, DigitalOcean.**
Other: **Data Structures and Algorithms (DSA), Problem Solving, CI/CD.**

PROJECTS

Backend system for a Mobile App
- Worked on a Backend system for a mobile application, responsible for user authentication, **CRUD** operations, real-time stock updates, and user stories
- Designed the **Entity Relationship Diagram (ERD)** ensuring a clear vision about the database schema.
- Implemented the REST API using **NestJS** and **PostgreSQL** with **TypeORM**.

Mini NGINX
- Implemented a mini **NGINX** like web server using **C++,** this project was a result of collaborative efforts from a team of 3 members and the purpose was to use **HTTP** in depth.
- Discovered how an **HTTP request** formed and what are the standards that should be respected when serving a response.
- Worked on efficiently serve many clients with **non-blocking I/O.**

Inception_of_things
- Set up a virtual environment for **Kubernetes (K3s, K3d)** deployment using **Vagrant.**
- Deployed **K3s** and understood its **Ingress** feature, learning how to simplify **Kubernetes** management with **K3d.**
- Implemented a **CI** for working clusters in **Docker** using **ArgoCD.**

EDUCATION

Software Engineering — 1337 Coding School #42 Network @UM6P   10/2019 - 10/2022
- Coursework: Imperative Programming, Object-oriented Programming, Algorithms & AI, System Programmation, Network & System Administration, Databases, Parallel Computing, Security, Software Quality Assurance.

Certifications & Achievements

- Artificial Intelligence: Legend level --- CodinGame
- C++ CERTIFICATION --- CodinGame
- Problem Solving (Basic) Certificate --- HackerRank

- Ranked 39th / 5290 in CodinGame Spring Challenge 2023
- Ranked 122nd / 4577 in CodinGame Fall Challenge 2022

Languages

Arabic: Native   **English:** Advanced   **French:** intermediate