

YOUNES BOUCHBOUK

Software Engineer — Go/React Specialist — Building Scalable Cloud-Native Systems

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Experience

OmniLab by 21Factory (Startup)

Jul 2025 – Present

Mid-level Software Engineer, Full-time

Casablanca, MA

- Domain expert for **Event Booking** and **SmartLink** microservices, owning end-to-end architecture and delivery.
- Designed and implemented **Golang microservices** following **DDD** and **Hexagonal/Clean Architecture** patterns.
- Built efficient APIs with **gRPC** and **Google AIP** standards for inter-service communication.
- Integrated production-grade observability using **Datadog**, **OpenTelemetry**, and **ClickStack/ClickHouse**.

Software Engineer, Full-time

Sep 2024 – Jul 2025

- Contributed to the same platform, delivering reliable backend services and user-facing features.
- Built immersive AR experiences with **Three.js**, increasing user engagement by 35% on the gamification SaaS platform.
- Fixed production issues and improved performance, reducing API latency by 40%.
- Technologies: Go, gRPC, Kubernetes, Docker, Datadog, React.js, Next.js, Three.js, TDD.

Oracle Corporation

Jan – Jun 2024

Research Assistant (Back-End), Internship

Casablanca, MA

- Improved and automated testing processes for **Graal Cloud Native Guides** (graal.cloud/gcn/guides).
- Developed new features and fixed bugs for a **notebook-based data science platform** (Oracle Labs Data Studio).
- Worked on **Jupyter integration**: themes, system file access, and embedding Jupyter via iframes.
- Technologies: Java Spring, TypeScript, Python, Jupyter Lab, Docker, Kubernetes.

ISPApp (Startup)

Aug 2022 – Jul 2023

Full-Stack Developer, Freelance

Dover, USA (Remote)

- Developed a user-centric dashboard that streamlined router management for ISPs.
- Integrated **Plotly** for real-time visualization of network metrics (ping, TCP, interfaces, wireless APs).
- Technologies: React.js, Next.js, Node.js, TailwindCSS, Plotly.

Projects

SENDIT: Full-Stack Delivery Network Application | React, Node.js, MongoDB, Neo4j

- Full-stack web application using MERN stack with Neo4j for shortest path optimization between cities in Morocco. Supports multi-hop deliveries across multiple delivery services.

ISPApp Network Management Dashboard | Next.js, Node.js, TailwindCSS, Plotly, Leaflet

- Implemented a robust router monitoring system with real-time graphs (ping, TCP, interfaces, wireless APs) using Plotly and interactive maps with Leaflet for network equipment visualization.

Person Re-identification System | Python, OpenCV, YOLOv4, Machine Learning

- Desktop application for detecting and tracking individuals using YOLO v4 for object detection and SIFT/ORB algorithms for feature extraction and re-identification across multiple camera feeds.

Education

National Institute Of Posts And Telecommunications (INPT)

Sep 2022 – Jul 2024

Engineer Degree: Data and Software Engineering

Rabat, MA

Polydisciplinary Faculty of Taroudant (FP)

Sep 2021 – Jul 2022

Professional License: Computer Science

Taroudant, MA

Superior School of Technology (EST)

Sep 2019 – Jul 2021

Technical University Degree: Computer Science

Safi, MA

Technical Skills

Programming Languages: Golang, JavaScript, TypeScript, Java, Python, Bash.

Backend & Architecture: Microservices, DDD, Hexagonal/Clean Architecture, gRPC, Google AIP, REST APIs.

Observability & Monitoring: Datadog, OpenTelemetry, ClickStack, ClickHouse.

DevOps & Cloud: Docker, Kubernetes, GitLab CI/CD, AWS.

Frontend: React.js, Next.js, Three.js, TailwindCSS.

Databases: PostgreSQL, MongoDB, MySQL, Redis.

Tools & Practices: Git, TDD, Circuit Breaker Pattern, VS Code, Cursor, Linux.