

Aymen Jallouli

Full Stack Developer | Software Engineer

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[LinkedIn](#) • [GitHub](#) • [Portfolio](#)



Professional Summary

Full Stack Developer and Software Engineering graduate (expected 2026) experienced in building scalable, production-ready web applications with React, Node.js, Django and Python in microservices architectures. Skilled at deploying cloud-native solutions on AWS with Docker, CI/CD and secure REST APIs, combining full-stack development with DevOps to deliver robust software in Agile teams.

Technical Skills

- Languages:** JavaScript, TypeScript, Python, Java, SQL, HTML5, CSS3
- Frontend:** React, Redux, Angular, TailwindCSS, Bootstrap, Material UI
- Backend:** Node.js, Express, Django, Spring Boot, Spring Security, GraphQL, REST APIs
- Databases:** MongoDB, PostgreSQL, MySQL, Redis
- Cloud & DevOps:** AWS, Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD, Prometheus, Grafana
- Architecture:** Microservices, API Gateway, OAuth2, JWT, Kafka, WebSockets
- Methods & Tools:** Agile/Scrum, Git, Postman, IntelliJ, VS Code, Figma, Vercel

Professional Experience

Full Stack Developer September 2025 – Present
AI Bonding – Germany • Full Remote

- Develop and maintain full-stack web applications across 12 microservices using React (frontend) and Django/Python (backend).
- Design, build and integrate 15+ secure REST API endpoints connecting React clients with distributed backend services.
- Deploy and operate cloud-native services on AWS across 3 environments (dev, staging, production), focusing on scalability, availability and cost efficiency.
- Containerize services with Docker and ship features through CI/CD pipelines within a 5-person Agile/Scrum team.

Technologies: React, Django, Python, AWS, Microservices, REST APIs, Docker

Freelance Full Stack & Frontend Developer 2023 – Present
Self-Employed • Remote

- Delivered 10+ web projects for international clients, ranging from responsive websites to complete full-stack web applications.
- Built modern, responsive frontends with React and TailwindCSS and full-stack features with Node.js, Express and REST APIs, integrating third-party services (payments, maps, authentication).
- Owned the full lifecycle of 10+ projects independently – requirements, development, deployment (Vercel) and client communication – delivering each on deadline.

Technologies: React, JavaScript/TypeScript, TailwindCSS, Node.js, Express, REST APIs, Vercel

Software Engineering Intern – Test Automation July 2023 – September 2023
ESPRIT Innovation Lab – Ariana, Tunisia

- Designed and built an automation tool to migrate 150+ Node.js unit tests to Jest, cutting migration time by 70%.
- Increased automated code coverage from 65% to 92%, uncovering 27 previously undetected critical bugs.
- Integrated the 150+ automated tests into CI workflows with GitHub Actions, enforcing quality checks on every commit.

Technologies: JavaScript, Node.js, Jest, GitHub Actions

Projects

Parkini – Smart Parking Management Platform (Team Lead) January 2025 – June 2025

- Architected and built a full-stack MERN application with Mapbox integration for real-time parking management.
- Developed a license-plate recognition system reaching 92% accuracy using Python.
- Implemented a complete CI/CD pipeline (Jenkins, Docker, GitHub Actions) that reduced deployment time by 75%.
- Built a secure REST API (JWT authentication, role-based access control) with a real-time analytics dashboard, WebSocket reservation notifications and secure online payments (Stripe, Flouci).

Technologies: MongoDB, Express, React, Node.js, Python, Docker, Mapbox • [Live Demo](#)

Restaurant Management System – Microservices Architecture September 2024 – December 2024

- Implemented 6 independent microservices with Spring Boot behind an API Gateway secured with OAuth2.
- Optimized the complaint-management module to handle 50+ concurrent requests at under 200ms latency.
- Set up monitoring with Prometheus and Grafana and asynchronous messaging with Kafka.

Technologies: Angular, Spring Boot, Express.js, Kafka, API Gateway, Eureka, Docker

Persohap – AI-Powered HR & Communication Coaching Platform 2025 – Present

- Engineered an AI-powered HR platform that automates HR processes and delivers personalized employee coaching.
- Built an interactive AI avatar that helps users improve their communication skills through real-time, conversational feedback.

Technologies: React, Django, Python, AWS, REST APIs, Conversational AI Avatar

Personal Projects: multiple self-initiated full-stack & frontend projects (React, Node.js, TypeScript) – see my [portfolio](#).

Education

Engineering Degree in Computer Science (Software Engineering) Expected July 2026
ESPRIT – Higher School of Engineering and Technology, Ariana, Tunisia

- Specialization in Web & Internet Technologies and DevOps.
- Relevant coursework: Microservices, CI/CD, Machine Learning, Web Security.

Certifications

Apollo GraphQL – Graph Developer Professional (2025)

Languages

Arabic – Native (C2) • English – Professional (B2) • French – Professional (B2)