

YASMINÉ CHERIF

Software engineer

Full-stack developer focused on clean architecture, automated releases, and reliable cloud operations

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Experience

Next Generation Sensors B.V

Software engineer

February 2023 – Present

Angular, Electron, python fastAPI, MongoDB, AWS

- Orchestrated Python microservices to control lab instruments end-to-end; standardized health checks & error handling
- Built high-level Python APIs over USB/serial (timeouts, retries, circuit-breakers) → integration effort ↓ 50%; device bring-up <10 min.
- Implemented cross-platform hardware discovery & permissions (Linux/Windows).
- Delivered reproducible signal-processing/ML pipelines (baseline, peak detect/alignment, PCA; RF/SVM/PLS-DA).
- Shipped an internal ops dashboard that streams real-time scan results and instrument telemetry from Python microservices, with alerts and one-click exports.
- Health-checked HTTPS deploys (Nginx + readiness), systemd auto-restart/watchdog, and fast rollbacks (<60 s) → MTTR <2 min, 98%+ uptime.
- Standardized structured logs, health probes, and alert policies; Wrote and maintained runbooks/on-call playbooks.

Hippo Labs, Inc

June 2022 – December 2022

Mobile Developer

React, React Native, NodeJS, Jest, Cypress, Detox, Github Actions, Jenkins

- Designed and shipped a habit-building web app to track and improve user engagement across multiple applications.
- Learned React Native rapidly by contributing to a social shopping app backed by a catalog with **billions** of records, aggregating offers for the same products across **hundreds of thousands** of stores.
- Implemented unit and end-to-end tests (Jest, Cypress, Detox), 98% coverage with CI-required status checks.
- Built CI/CD pipelines (GitHub Actions & Jenkins) to run tests, produce signed APKs, and notify stakeholders on new builds; reduced manual release effort and improved release consistency.

International Consulting Canada

July 2021 – August 2021

Full Stack Developer Intern

Angular, Django Python, PostgreSQL, Adobe XD, Docker, Amazon RDS, S3, ECS

- Built a Jira-style PM app with an Angular SPA (boards, backlog, sprints, drag-and-drop); translated Adobe XD prototypes into a responsive UI.
- Implemented a Django REST API (issues, sprints, filters) with authentication and role-based access; modeled data in PostgreSQL.
- Containerized services with Docker and deployed to AWS ECS behind a load balancer; stored attachments/static assets on S3; Set up CI/CD (GitHub Actions) to build images and update ECS tasks.

Education

National Institute of Applied Sciences and Technology

September 2018 – September 2023

Software Engineering

Tunis, Tunisia

Projects

Ecommerce application | *React, NodeJs, MongoDB, Kubernetes, Helm, Terraform, Azure*

April 2023

- Built a full-stack store with React SPA + Node.js API (catalog with faceted search, cart/checkout, order tracking, admin dashboard); JWT auth, Stripe payments, assets on Azure Blob + CDN.
- Deployed web/API/worker services to AKS via Helm provisioned infra with Terraform (AKS, ACR, VNet, Key Vault); CI/CD auto-builds and Helm releases.
- Instrumented metrics and logs: Prometheus + Grafana (p95 latency, error rate, RPS) and Datadog alerts; optimized with indexed queries and server-side pagination → p95 API latency < 200 ms and **99.9%** uptime (trial).

Technical Skills

Programming Languages: Python, JavaScript, TypeScript, Java, C, C++.

Front-end: Angular, ReactJS, React Native, HTML/CSS.

Back-end: NodeJS, expressJS, NestJS, Python.

Databases: MongoDB, MySQL, PostgreSQL, Oracle.

Testing and Devops: Docker, Git, Github, Jest, Selenium, Heroku, Linux, Kubernetes, Ansible, Terraform, Helm.

Machine Learning: Pandas, Numpy, SciKit Learn, OpenCv, Jupyter.

Languages

Arabic: Native Language

English: Fluent

French: Fluent