

# ADAM NGAZZOU

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## PROFILE

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Passionate software developer **seeking a software development internship** with a focus on full-stack web development and backend architecture. Experienced in API integration, scalable application design, and building efficient, innovative solutions. Active member of Google Developer Group (GDG), with a keen interest in micro-services and continuous learning.

## SKILLS

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**Front End** | React, NextJS, CSS, Tailwind

**Back End** | Node.js, Express.js

**Languages** | Javascript, TypeScript, Python, C

**Database** | MongoDB, Redis, Firebase, MySQL

**Version Control** | Git

**API Testing** | Postman, Insomnia

**Tools** | Docker, GitHub Actions, npm, V0, Sanity(CMS), Vercel, Railway, Neon

**Soft Skills** | Adaptability, Teamwork & Collaboration, Communication, Time Management

## EXPERIENCE & PROJECTS

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### Startup Directory

Dec 2024

*Platform for browsing, managing, and posting startup listings*

Next.js | Express.js | MongoDB | Redis | Tailwind

- **Reduced page load times by ~40%** through Server Component **HMR** Cache and Partial Pre-rendering (**PPR**) and advanced data fetching techniques, including **SSR**, **SSG**, and **ISR**.
- **Optimized database query efficiency by ~30%** with Redis **caching** and **indexing**, reducing response times and improving user experience.
- **Implemented robust backend architecture** with Express.js and MongoDB, optimizing API performance through indexing, aggregation pipelines, and caching strategies.
- **Enhanced reliability and monitoring** by integrating Sentry for real-time error tracking and logging, ensuring seamless user experience and quick issue resolution.

### Learning Management System

Mar 2025

*Platform for managing, delivering, and tracking online courses*

Next.js | PERN | Tailwind

- **Built a role-based authentication system** using **JWT** and **bcrypt**, ensuring secure access with specific permissions for instructors and students.
- **Designed and optimized a complex relational database schema** with 20+ tables, supporting efficient CRUD operations and role-based data access (**RBAC**) with minimal latency
- **Implemented error handling** and **skeleton loading** states across the application to improve user experience and handle loading delays for large datasets, optimizing responsiveness in a codebase of 18k+ lines.
- **Engineered a scalable and secure backend**, enabling efficient data fetching and management of user roles (admin, instructor, student) through optimized SQL joins and JSON building.

## EDUCATION

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**Horizon Digital School of Technologies** – Bachelor's in Computer Science

2024 - 2027

- Awarded 100% Tuition **Scholarship** for Academic Excellence
- GPA ~16.80/20

## LANGUAGES

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**English** | C2 Certified EF SET (71/100)

**German** | B1

**Arabic** | Native language

**French** | Good command of French.