

Zeraibi Ahmed Yassine

Computer Science Student — Full Stack Developer

| aceiny.dev@gmail.com | linkedin.com/in/yacine-zeraibi-1b8307300 | github.com/aceiny | yxne.tech

EDUCATION

First Year, Graduate Program in Computer Science

Bejaia, Algeria

Higher School of Computer Science and Digital Technologies - ESTIN

Sep. 2024 – Present

- **Coursework:** Software Engineering, Databases (DB), Networks, Language Theory...

Preparatory Class in Computer Science

Bejaia, Algeria

Higher School of Computer Science and Digital Technologies - ESTIN

Sep. 2022 – June 2024

- **Coursework:** Algorithms and Data Structures, Operating Systems (Linux), Computer Architecture, Assembly Language Programming, Object-Oriented Programming, Analysis, Algebra, Probability and Statistics, Mathematical Logic

Baccalaureate Diploma - Experimental Sciences Track

Bordj Bou Arreridj, Algeria

Ammar Boudjellal Mebarek High School

Sep. 2021 – June 2022

- **Baccalaureate:** 16.58 (High Honors)
- **Mathematics:** 19.5/20

TECHNICAL SKILLS

Programming Languages: C/C++, Assembly, Bash, Python, Java, JavaScript, TypeScript, Go

Frontend: React, Next.js, React Native, TailwindCSS/NativeWind, Redux Toolkit, Zustand, React Query

Backend: Express.js, NestJS, FastAPI, Django, Gin, WebSockets/Socket.io

Databases: PostgreSQL, MongoDB, Firebase, Supabase, SQL, NoSQL

ORMs: TypeORM, PrismaORM, Mongoose, Drizzle ORM

Security/Auth: OAuth2, JWT, Secure Cookies, Hardened APIs

DevOps/Tools: Git/GitHub, GitHub Actions, Docker, Nginx, Coolify, Linux, VS Code

Cloud: Azure, DigitalOcean, Vercel, Firebase, Supabase

AI/ML: OpenAI API, LangChain, OCR, Speech Recognition, NumPy, Pandas

Testing: Postman, Insomnia, Playwright, Jest

Architecture: REST APIs, GraphQL, RPC, Monoliths and Microservices, API Gateway, Event-Driven Design

Other: Automation, Web Scraping, Figma, Open source, n8n

GitHub Contributions: Over 2,000 commits across various projects, 75+ day consecutive contribution streak

PROFESSIONAL EXPERIENCE

Fullstack Developer - Survision System

July 2024 – Present

SURVISION

Algiers, Algeria

- Built the backend with NestJS, TypeORM, PostgreSQL, and Redis in TypeScript, implementing secure APIs and real-time functionality.
- Developed a mobile app using React Native (NativeWind) and a web dashboard with React, Next.js, and TailwindCSS.
- Configured server security (Nginx, firewall, Cloudflare, SSL, Docker) and managed full deployment on a VPS.
- Designed a modern, responsive, and SEO-optimized landing page.
- Implemented a comprehensive wallet and monetary system with withdrawals, pending approvals, and a referral program, alongside full authentication.
- Built geolocation surveys using Nominatim, object storage with MinIO, and a mobile offline queue to handle requests while offline and sync them when back online.
- Set up a Docker-based environment, monitoring/logging with Loki and Grafana, a full notifications system including push notifications, and a complete admin dashboard to manage all features.

Backend Developer - MyQCM

August 2024 – September 2024

Freelance Project

Algiers, Algeria

- Led a complete backend overhaul with NestJS, TypeScript, and PostgreSQL, implementing a modular and scalable architecture.
- Designed an intelligent adaptive learning engine with real-time learning adaptation and an advanced progress tracking system.
- Developed a secure payment system with code activation, levels, XP, streaks, and a streak calendar.
- Created a levels and experience system, as well as an IRT/BTK ranking system for personalized learning.
- Built a dynamic unit system that displays courses based on the user's current year and automatically updates the year progression.
- Implemented a full progression tracking system to monitor user performance and achievements.
- Developed a real-time SSE notification system, queues for emails and scheduled tasks, and a local file storage system.
- Migrated and restructured the database while ensuring data integrity, collaborating closely with 3 team members.
- The project won 2nd place at Eductek (a conference for educational startups).

Fullstack Developer - Ra9man

June 2024 – August 2024

Freelance Project

Algiers, Algeria

- Developed a platform to simplify the extraction of administrative certificates using AI (RAG chatbot, OCR, STT).
- Backend with NestJS, TypeScript, PostgreSQL; frontend with React, Next.js, and integration of secure APIs.

Fullstack Developer - Chery Algeria

January 2024 – June 2024

2nd Year Interdisciplinary School Project - ESTIN

Bejaia, Algeria

- Developed a data management system in collaboration with Chery Algeria. 5-person team.
- Overhauled the backend (NestJS, TypeScript, PostgreSQL) and frontend (React, TailwindCSS).
- Project graded 17.5/20 by the academic jury.

Frontend Developer - ENSSEA Website

April 2024 – May 2024

Freelance Project

Algiers, Algeria

- Developed the official ENSSEA website with Next.js, TypeScript, TailwindCSS, and Shadcn, connected to a Laravel backend.
- Optimized performance (image loading, API requests, responsive UI) and deployed via cPanel.
- Implemented dynamic components, API error handling, reusable request hooks, and a modular design.

PERSONAL PROJECTS

Backend & Security Developer - LockSphere

2025

Personal Project

Algeria

- Developed an online password manager with client-side, end-to-end encryption (E2EE).
- Built a secure architecture using Bun, Hono, Drizzle ORM, PostgreSQL, Redis, and Dockerized deployment via Nginx.
- Implemented hybrid encryption with AES-256-GCM, RSA, HMAC-SHA-256, PBKDF2 derivation, and encrypted local storage.
- Integrated 2FA with TOTP and real-time login history.
- Built a secure upload system with Cloudinary, category management, light/dark theme, and password generation.
- Integrated import/export features, activity logging, and monitoring.

Fullstack Developer - DZ Artisan

2024

2nd Year Interdisciplinary School Project - ESTIN

Bejaia, Algeria

- A platform connecting artisans with clients through a modern and simple interface.
- Stack used: Next.js 14, App Router, TailwindCSS, PostgreSQL, Drizzle ORM, Hono, Bun, Cloudinary.
- Features include a favorites system, filtered search, secure image uploads, a REST API, and a responsive frontend.

COMPETITIONS AND EXPERIENCES

- **NASA Space Apps Challenge organized by Sirius - October 2023:** 1st place winning team for creating an innovative solution to a space challenge, held in Béjaïa.
- **Nextrace CTF organized by Nexus - November 2023:** 2nd place in an intense and competitive cybersecurity challenge.
- **InnoByte Hackathon organized by Bytecraft - December 2023:** 1st place winning team out of 18 teams for developing an innovative solution, held at the Syphax Hotel.
- **TrainIT Datathon organized by SOAI - March 2024:** Ranked 6th for data analysis and visualization in a competitive context.
- **MicroHack Hackathon organized by Microclub - April 2024:** Participated in developing a technical solution in collaboration with a dynamic team.

EXTRACURRICULAR ACTIVITIES

ByteCraft Club

September 2024 – Present

Leader and Co-Manager of the Development Department

Bejaia, Algeria

- **About the role:** Led technical workshops, particularly in backend and frontend, mentored members during events, and actively participated in the organization and development of club projects.

Nexus Club

September 2023 – June 2024

Leader and Co-Manager of the Development Department

Bejaia, Algeria

- **About the role:** Led the development department, organized backend and frontend workshops, participated as a mentor in various events and challenges, and coordinated teams on technical projects.

SOAI Club

September 2023 – Present

Member of the IT Team

Bejaia, Algeria

- **About the role:** Participated in the development and maintenance of IT solutions, assisted in organizing technical events, and provided technical support for the association's projects.

LANGUAGES

- **Arabic:** Native speaker.
- **French:** Intermediate.
 - TCF SO (General Public) B2 [416] – Algiers, French Institute of Algeria, Algiers branch
- **English:** Advanced.
 - EFSET C2 74/100 – <https://cert.efset.org/fr/E7cuUd>