

ZAKARIAA ELABBASSI

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GitHub



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SUMMARY

Motivated computer science student at 1337 Coding School, engaged in rigorous software development. Skilled in full-stack development with a strong foundation in algorithms and data structures. Gaining hands-on experience through collaborative web application projects, demonstrating problem-solving ability, adaptability, and effective teamwork in fast-paced environments.

PROJECTS

WebServe – C/C++98

- Built a fully functional HTTP web server from scratch in C/C++98, handling client requests, serving static and dynamic content (CGI), managing sockets, and implementing basic HTTP features with a focus on performance and standards compliance.

NetPractice – Network Fundamentals

- Completed interactive exercises to master computer networking concepts including IP addressing, subnetting, routing, and packet flow analysis using a visual simulator, strengthening low-level understanding of network architecture and troubleshooting.

Inception – Containerized Infrastructure with Docker

- Designed and deployed a secure, multi-service web infrastructure using Docker and Docker Compose. Built custom images from scratch for services like NGINX, WordPress, MariaDB, FTP, and Redis, ensuring container orchestration, volume management, and network isolation.

BornToBeRoot – Linux System Administration

- Configured and secured a virtual Linux server from scratch using Debian. Applied essential system administration tasks including user and group management, firewall setup, SSH hardening, and service configuration to reinforce understanding of system-level operations and cybersecurity basics.

Full-Stack Web Application – ft_transcendence

- Developed a real-time multiplayer Pong game seamlessly integrated into a full-featured social platform. The application included real-time chat, voice/video calling (WebRTC), user authentication with 2FA, friend management, file sharing (images, audio), emoji support, and dynamic user profiles — all built using a modern full-stack architecture (Next.js, Fastify, Socket.io, SQLite). Focused on delivering a responsive, interactive, and secure user experience.

EDUCATION

Baccalaureate in Mathematical Sciences

July 2020

Ibno Khafaja, Casablanca

Diploma in Computer Science and Mathematics

October-2020 - July 2023

Hassan II University, Faculty of Sciences – Ain Chock, Casablanca

Software Engineering Program – 1337 Coding School, Khouribga

November 2023 - Present

Education at 1337 School is built on a rigorous project-based learning model that emphasizes hands-on experience, self-learning, and peer-to-peer collaboration. Rather than traditional lectures, students engage in real-world coding projects designed to develop problem-solving skills, algorithmic thinking, and technical creativity. This immersive approach not only strengthens programming proficiency but also enhances cognitive abilities such as logic, adaptability, and critical thinking, effectively promoting long-term intellectual growth.

SKILLS

Programming Languages & Tools: C/C++, Java, Javascript, Typescript, Bash, Git, Docker

Frameworks / Libraries: React.js, Next.js, Tailwind CSS, Express.js, fastify.js, spring boot

ADDITIONAL INFORMATION

Passionate about technology, problem-solving, and continuous learning. Comfortable working independently and in team-based, collaborative environments. Strong adaptability and resilience gained through intensive project-based training.