



# Asaad Naji

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## Summary

Self-taught and highly motivated developer with a strong foundation from 1337 Coding School, Khouribga. Skilled in low-level programming languages like C and C++, and proficient in modern web technologies including HTML, CSS, **JavaScript ES6**, **TypeScript**, **React.js**, **Next.js**, **Node.js**, **NestJs**, **Django**, and Python. Experienced with **Docker**, **Tailwind CSS**, **Git** & **GitHub**, and familiar with **Agile methodologies**. Quick learner with a responsible mindset.

## Experience

**VoiceAi** **March 2025 - Present**  
California, US  
Full Stack Developer

<https://voice.ai/>

Contributed to the development of full-stack applications focused on AI agents and intelligent solutions. Collaborated across teams to build scalable systems while supporting design consistency.

## Education

**1337 Coding School** **Late 2023 - Present**  
Khouribga, Morocco Software Engineer / Full-Stack WebDev

## Skills

### Programming Languages

C/C++, Python, Typescript, Javascript

### Frontend Frameworks / Libraries

Next.js, React.js, Tailwind CSS

### Backend Frameworks / Libraries

Django, Node.js, Express.js, Flask, NestJs

### Databases

PostgreSQL, Prisma

### Containerization

Docker

### Others

AWS SDK

## Competitions

**CodinGame Winter Challenge 2024 - Bot Programming** **Dec 19, 2024**

[Leaderboard Link](#)

Used C++ and some pathfinding algorithms and heuristics scoring algo to build a strong strategy and **Placed 49th out of 3,900**

**CodinGame Spring Challenge 2025 - Optimisation** **Apr 03, 2025**

[Leaderboard Link](#)

Used C++ to create a solver for the mark streeres cephalopods game , used advanced optimisation techniques like bitpacking to optimise space , bitwise and bit masking to optimise instructions , functions inlining and pragmas unrolling and omp parallel and **Placed 73 out of 2864**

## Personal Projects

### Dockerized Web Services

Designed and deployed a Docker-based system using multiple containers (NGINX, WordPress, MariaDB, Redis cache) while ensuring security, scalability, and efficient service management through Docker Compose.

### PingPong Mania

Developed a secure, responsive web application with user management, authentication (JWT, 2FA), and a dynamic dashboard using Next.js, Tailwind CSS, Django, Django Channels, PostgreSQL, and Redis cache. Ensured real-time communication and enhanced security through advanced authentication methods.

### Real-Time Chat Application

Built a full-stack chat application using React.js, Node.js, Express.js, MongoDB, and Tailwind CSS. Implemented JWT authentication for secure access, real-time messaging, and used Framer Motion for engaging UI animations.

### Custom HTTP Server

Built a lightweight HTTP server in C++ from scratch, handling HTTP/1.1 requests, CGI execution, and dynamic routing. Implemented advanced features like chunked transfer encoding, persistent connections, and custom error handling while adhering to RFC standards.

### Advanced Shell

Created a custom Unix shell in C, supporting advanced features including command chaining (``&&``, ``|``), sub-shell execution with parentheses, signal handling, environment variables, and I/O redirection.

### AI-Powered Tic-Tac-Toe

Developed a Tic-Tac-Toe game with an AI opponent using the Monte Carlo Tree Search (MCTS) algorithm. Implemented efficient decision-making, random simulations, and intelligent move evaluation for adaptive and competitive gameplay.