HADJ ARAB Adel

Front-end Engineer

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Professional Experience

Front-end Engineer – Qareeb May 2025 - Present

- Lead frontend architecture and delivery of large scale product surfaces, owning component design, state management and system integration across the application. Drive performance, accessibility and cross browser quality from planning to production, collaborating closely with product and design to ship reliable user centric releases while mentoring junior developers and establishing frontend best practices.

Front-end Intern – UpGrowth January - April 2025

- Contributed to production codebase by shipping real world features and resolving complex issues across the frontend. Collaborated in agile workflows, participated in code reviews and improved application stability and user experience under production constraints.

Key Projects

Mcoli UI React | TypeScript | Tailwind CSS | Storybook | Component Library

- An open source premium React component library with MicroClub DNA, where I serve as main maintainer leading architecture, theming engine and release workflow. Own design system quality across 5 custom themes and accessible primitives, drive performance and CLI for instant deployment with full code ownership and review contributions.

QVision React | TypeScript | Surveillance Platform

- An intelligent video surveillance platform that turns any IP camera into a smart monitoring system for construction, parking and security operations. Enables scalable management of hundreds of cameras with event based capture and high performance operations.

next-platter Next.js | React | TypeScript | CLI Tool

- A CLI tool to scaffold Next.js projects with pre-configured templates for rapid development and consistent project setup.

M-Security Flutter | Rust | Dart | Security SDK

- A native Rust security SDK for Flutter built and maintained by the Dev Department of MicroClub. Provides secure and high performance cryptography with all operations running in Rust and no platform channels.

Micro Club Website Next.js | React | MongoDB | Better Auth | Web Platform

- Official website of Micro Club, the computer science club at USTHB, live at microclub.info. Main developer (322 of 414 commits): landing page on Mcoli UI, member registrations, staff admin area with a two reviewer workflow, interviews and decision emails.

MicroCode Next.js | NestJS | PostgreSQL | Turborepo | Competition Platform

- A story driven programming competition for Micro Club's Ramadan event, inspired by Advent of Code. Built end to end as lead developer: NestJS API, database schema and Next.js front end, with unique puzzle inputs and a live leaderboard.

Education

State Engineer in Computer Science – Software Engineering Specialization
University of Science and Technology Houari Boumediene 2022–Present
Relevant Courses: Algorithms, Database Systems, Software Architecture | Current Average: 15/20

Technical Skills

- **Languages**: TypeScript, JavaScript, Python, Java, C, Rust
- **Frontend**: React, Next.js, Tailwind CSS
- **Libraries**: TanStack Query, Zustand, Framer Motion, Zod
- **Backend & Databases**: Node.js, Nest.js, PostgreSQL, MongoDB, Oracle
- **Tools**: Git, Docker, Cypress, Storybook, Vercel

Languages

Arabic: Native **French**: Advanced **English**: Advanced