

AMRANI ahmed khalil

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ABOUT ME

Software engineer with experience across frontend, backend, and internal developer tooling. Own CLI tooling that generates schema-driven applications, and contribute to system design for multi-tenant SaaS architecture. Focused on clean, maintainable architecture and measurable improvements to reliability, testing, and developer workflow.

EXPERIENCE

- Inovask** Remote
Software Engineer *Oct 2025 – Present*
 - **Testing & Reliability:** Raised the tenant dashboard's frontend test pass rate from ~50% to 100% by fixing broken suites and extending Cypress end-to-end coverage, increasing release confidence.
 - **Codebase & Feature Delivery:** Cut technical debt by restructuring ~40% of the tenant dashboard codebase into a modular, pattern-consistent architecture, and shipped new features – including cookie and in-memory token authentication – validated by end-to-end tests.
 - **CLI Tooling Ownership:** Own end-to-end development of the platform's CLI tooling, implementing the command logic, file generation, and Docker/Docker Compose orchestration that scaffolds each tenant's generated frontend and backend.
 - **Generated Frontend Architecture:** Architected the generated frontend's two-phase rendering pipeline: a load phase that resolves each tenant's schema, inputs, tables, and locale files, followed by a render phase where React builds the entire UI purely from that resolved configuration, with zero hardcoded copy or markup — letting tenants ship a working application straight from their schema with no custom frontend code.
- ISO Voyage** Remote
Full Stack Developer (Freelance Contract) *Jun 2025 – Jan 2026*
 - **Project Acceleration:** Accelerated feature delivery by 50% after joining three months into a 3-month contract, working across the React/Next.js frontend and Express + Prisma backend.
 - **Codebase Improvement:** Eliminated legacy technical debt by rebuilding one of two frontend applications from the ground up and refactoring ~50% of the overall frontend codebase to speed up development.
 - **Feature Development:** Built B2B and in-app communication features, improving existing flows by ~30% and reducing user-facing errors.
 - **Collaboration & Handover:** Coordinated with a small remote cross-functional team to ship features on schedule through contract handover.
 - **Technology Stack:** React.js, Next.js, Node.js, Express.js, Prisma, PostgreSQL, Docker, Git, Redis

EDUCATION

- University Hassiba Ben Bouali Chlef** Chlef, Algeria
Bachelor's Degree in Computer Science *2025*

PROGRAMMING SKILLS

- **Languages:** JavaScript, TypeScript, Python, C
- **Frontend:** React.js, Next.js, Tailwind CSS
- **Backend:** Node.js, Express.js
- **Databases:** PostgreSQL, MongoDB, Redis
- **Tools & Technologies:** Git, Docker, Bun, Cypress, RabbitMQ, REST APIs

SIDE PROJECTS

- **Notiq** Personal Project
Full Stack Developer In Progress
 - **System Overview:** Building a multi-tenant notification engine (Bun, TypeScript, PostgreSQL, RabbitMQ, Redis) using Clean Architecture and DDD principles for scalable, multi-channel (email, in-app, SMS) delivery.
 - **Event-Driven Architecture:** Architecting an event-driven system that decouples synchronous tenant API requests from asynchronous delivery via RabbitMQ queues and dedicated per-channel worker consumers.
 - **Data Modeling:** Designing multi-tenant data isolation, template versioning, and subscriber channel-preference schema across the core PostgreSQL tables.
 - **Resilience & Roadmap:** Working toward dead-letter-queue retry handling and delivery analytics to meet a 99.9% uptime, sub-5-second delivery SLA, with full system design and roadmap documented.
 - **Technology Stack:** Bun, TypeScript, Express.js, PostgreSQL, Knex, RabbitMQ, Redis, Docker Compose
- **End of Studies Project** Hassiba Benbouali University, Chlef
Full Stack Developer Oct 2024 – May 2025
 - **Project Overview:** Built a full-stack platform for managing academic resources and interactive quizzes with a responsive Next.js, Redux, and Tailwind CSS UI, helping teachers streamline course delivery and improving student engagement.
 - **Quiz System & AI Generation:** Developed a flexible quiz system supporting multiple question types, and integrated Gemini 2.0 to auto-generate quiz questions from uploaded course materials.
 - **API & Auth:** Designed a REST API (Node.js, Express, Prisma, PostgreSQL) with 10+ endpoints and JWT-based authentication across Teacher and Student roles.
 - **Technology Used:** TypeScript, Next.js, React, Redux, Node.js, Express, Prisma, PostgreSQL, Tailwind CSS, Gemini 2.0.

LANGUAGES

- **English:** Advanced
- **Arabic:** Native

SOFT SKILLS

- Communication, teamwork, ownership, fast learning