

Mohamed Nouichi

Full Stack Developer

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Summary

Creative developer with strong full-stack development skills (Next.js, TypeScript, Node.js/Python). Proven ability to design user interfaces and build end-to-end features and services, demonstrated through projects like brandpull and Repissue. Eager to combine design and engineering to build impactful products and software that is enjoyed by real users.

Experience

University of Sharjah March 2025 - Current

Fullstack Engineer

- Led end-to-end migration of 15+ legacy web applications to a cloud-hosted Sitecore CMS architecture, developing React (TypeScript) frontend components and integrating them with backend content APIs. Deployed and optimized delivery using AWS CloudFront / Azure CDN, modern HTML5/CSS3, and performance profiling tools, achieving a 45% improvement in Core Web Vitals and <200ms average server response times.
- Re-engineered full-stack application architecture by refactoring 100+ modular React components, implementing TypeScript-based data models, and introducing structured data (JSON-LD, [Schema.org](#)) across 8 content types. Optimized backend rendering, caching, and API response strategies, resulting in 45% faster page loads and a 35% increase in SEO performance scores.
- Designed and evaluated AI chatbot integrations by building proof-of-concept full-stack implementations using REST APIs, Bun/Node.js backend services, and React-based conversational UIs. Assessed cloud deployment models (AWS/Azure), authentication flows, scalability, and cost efficiency. Led 5 multi-stakeholder technical demos and delivered integration and ROI analysis that guided \$50K+ enterprise technology investments.

Rapidstart September 2024 - March 2025

Frontend Developer

- Architected and deployed a scalable full-stack web application using Next.js (React, TypeScript) with server-side rendering (SSR) and optimized API routes. Built reusable React components styled with Tailwind CSS, implementing performance optimizations that improved page load metrics by 30%.
- Designed and implemented a responsive, mobile-first UI architecture using HTML5, CSS3, and Tailwind, ensuring 100% cross-browser compatibility across 5+ device form factors. Integrated multiple RESTful backend services via typed API clients, handling authentication, data validation, and error handling to maintain 99.9% data consistency across platforms.
- Improved application performance by implementing Next.js routing optimizations, dynamic imports, optimistic updates, and lazy loading, reducing JavaScript bundle size by 25%. Established CI/CD pipelines using GitHub Actions, integrating automated builds, tests, and deployment workflows to enable zero-downtime releases and reduce manual deployment effort by 80%.

Education

University of Sharjah March 2021 - May 2025

B.S. Computer Engineering

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Embedded Systems, Computer System Architecture, Artificial Intelligence, Mobile App Development, Software Engineering, Object Oriented Programming, and more.

Projects

Limusic

- Built a cross-platform desktop YouTube Music client in Rust (Tauri 2) and SvelteKit, working directly with YouTube's private InnerTube API, including its signature cipher and n-parameter transform, which run in hidden webviews to resolve playable audio streams without a backend server.
- Implemented a playback pipeline that recovers from failures on its own, retrying across multiple YouTube client identities and re-extracting ciphers when they break, with gapless libmpv audio and native OS media key support (MPRIS/SMTC).

Repissue - Open Source CLI Tool

- Engineered and published an open-source Typescript/Node.js CLI tool on npm achieving 1,000+ weekly downloads, enabling developers to pack Github Issues & PRs into structured, AI-ready context files (Markdown, Plain, XML) that feed directly into LLM context window.
- Designed a multi-stage data pipeline with concurrent Github API pagination, automatic rate-limit retry, and Zod schema validation, easily processing repositories with 500+ and PRs while eliminating bot noise and reaction-only comments to maximize signal density per token

Brandpull - Fullstack Brand Asset Extraction Tool

- Engineered a fullstack brand asset extraction tool that scrapes any website's logos, color palletes, typography, and hero images in real time, deployable via Docker in a single command.
- Engineered a lean, edge-native architecture on Cloudflare Workers with KV caching to serve repeat lookups at <100ms latency, a rate-limited extraction API to eliminate crowded requests, and a three-stage Docker build that ships a minimal production image with no Bun runtime overhead

Skills

Languages & Frameworks

Typescript, Javascript, Python, Go, C++, SQL, Bash, React.js, Next.js, Vue.js, Tailwind CSS, Figma, HTML, CSS, UI/UX

Backend & Data

Node.js, Bun, Hono, FastAPI, WebSocket, AWS, Serverless, Prisma, PostgreSQL, Supabase, MongoDB, Convex, Pytorch, TensorFlow

DevOps & Testing

Docker, Kubernetes, GitHub Actions, Vitest, Playwright, Jest, Turborepo, Linux