

# 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 | 3.4 GPA

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

### 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

### 📁 Frontend

Next.js, React, Typescript, HTML, CSS, JavaScript, Angular, Figma, UI/UX, Responsive Design

### 🧠 AI & Machine Learning

LLMs, Prompt Engineering, RAG, AI/ML, PyTorch, TensorFlow, Machine Learning, Claude, Embeddings

### 🌐 Real-Time Technologies

Real-Time Tech, Real-time Collaboration, WebSockets, Edge Functions, Data Sync, Supabase Realtime

### ☁ Backend & Cloud

Node.js, Bun, Hono, Python, FastAPI, AWS, Serverless, CI/CD, Convex, Supabase, OAuth 2.0, OpenID Connect, Clerk