ALi Louzizi

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Technical Skills

Programming Languages: TypeScript, JavaScript, Python, C++, C, SQL
Frontend Development: React.js, Next.js, Tailwind CSS, Redux, REST APIs
Backend Development: Node.js, Nest.js, Django, Express.js
Database & ORM: PostgreSQL, Prisma, Supabase
DevOps & Tools: Docker, Kubernetes, Git, GitHub Actions, CI/CD

Experience

Marrakech Launchpad　　　　　　　　　　　　　　　　　　January 2024 – August 2024
- *Full Stack Developer Intern* | Next.js, Nest.js
- Developed a comprehensive CRM project for the European market aimed at optimizing company scheduling and work organization.
- Utilized full stack development skills to create a revolutionary software solution with a focus on SAAS.
- Implemented features such as an intelligent agenda for task organization, team shift management, resource allocation, creating tasks, and automated generation of quotes, invoices, and payroll sheets.
- Contributed on a digital marketplace platform, implemented a 3D map and integrated announcements for a user-friendly preview and experience.

Projects

FT_TRANSCENDENCE | *Next.js, Nest.js, Tailwind, PostgreSQL (Prisma)*
- Built a real-time multiplayer Pong game using Next.js frontend and NestJS backend with WebSocket for live gameplay and matchmaking.
- Implemented comprehensive user system with JWT, 2FA, and OAuth strategies alongside real-time chat with private messaging.
- Optimized database performance using Prisma ORM and efficient WebSocket management for seamless multiplayer experience.

Inception of Things | *K3s, K3d, Vagrant, Docker, Argo CD*
- Kubernetes Infrastructure: Implemented a multi-node K3s cluster using Vagrant, configuring server and worker nodes with automated provisioning and deployment.
- Application Orchestration: Designed and deployed a three-application system with load balancing and host-based routing, demonstrating advanced Kubernetes networking concepts.
- Continuous Deployment: Integrated Argo CD for automated deployment and version management, implementing GitOps practices for infrastructure as code.

Hypertube | *Next.js, TypeScript, Nest.js, BitTorrent*
- Full-Stack Streaming Platform: Built a video streaming service using Next.js frontend and NestJS backend with BitTorrent integration for content delivery.
- Security and Authentication: Implemented OAuth2 authentication system with multiple login strategies and secure session management.
- Advanced Media Processing: Developed background processing service for video conversion, streaming.

Swika | *Next.js, Nest.js, Material UI, Supabase*
- E-commerce Platform Development: Constructed a marketplace using Next.js frontend and NestJS backend with real-time inventory tracking.
- Enhanced User Experience: Created an intuitive interface with dynamic filtering and responsive design achieving 40% improved engagement.
- Performance Optimization: Implemented SSR and efficient caching strategies reducing load times by 60% and improving SEO metrics.

Education

1337 School - Mohammed VI Polytechnic University　　　　　　　　　　　　2021 - Present
software engineer — full-stack
Lycée Abderahman Ben Zidane　　　　　　　　　　　　　　　　　　　　　2020
Baccalaureate degree in Physical science (SPC)