

ABDELMOUGHIT ECHCHARBINY

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Experience

- **FREELANCE** 
- Sep 2024 – Feb 2025
- Casablanca, MA
- **full stack developer** 
 - Developed a platform enabling creators to register accounts, invite followers, sell products, and receive donations.
 - Built with React, Next.js and Express.js containerized with Docker.
 - Implemented CI/CD pipelines for automated testing and deployment.
 - Deployed on Google Cloud Platform (GCP), with auto-scaling instances to handle variable traffic and load balancing distribute requests across multiple instances.
 - Configured infrastructure to automatically destroy idle instances after traffic decreases, optimizing cost efficiency.

Projects

- **MINISHELL** | bash implementation 
systems Programmer (*C, Unix, Shell, Git*) Jan 2024 - Jun 2024
- Built a custom Unix shell in **C**, replicating core Bash functionalities including command execution, pipes, and redirections.
 - Developed a robust **parser** to handle input parsing with support for quotes, environment variables, and expansions.
 - Implemented **process management** using `fork`, `execve`, and `wait` to handle foreground and background processes.
 - Added **signal handling** (`Ctrl+C`, `Ctrl+\`, `Ctrl+D`) to mimic real shell behavior and improve user experience.
- **PongGame** | Full Stack Web Application 
Full Stack Developer (*Next.js, SQLite, Fastify.js, Typescript*) Jan 2025 - Sep 2025
- **Real-Time Interaction:** Developed a real-time multiplayer game using Websockets technology for seamless interactive gameplay, chat, and instant updates.
 - **Third-party authentication:** Integrated third-party authentication services; Intra42 and Google Authenticator 2FA.
 - **Database Design & Scalability:** Designed the database schema using **SQLITE** for structured data storage and retrieval, engineered backend architecture for scalability, ensuring low-latency during peak traffic.
 - **Security & Authentication:** Implemented secure user authentication and authorization mechanisms using **JWT** and route/websockets guards, two-factor authentication (2FA), safeguarding against any security threats.

Education

- **1337 – 42 Network** 
Computer Software Engineering; Level: 10.00 Khouribga, MA
Oct 2022 – Oct 2025

Programming Skills

- **Languages:** TypeScript, C/C++, JavaScript, SQL, Shell
- **Technologies:** React, Next.js, Tailwind CSS, Zustand, Redis, Node.js, Fastify.js, Nest.js, Prisma, Socket.IO, Docker, docker-compose, GitLab, GitHub, Git, Express.js, Framer Motion, Vite
- **Databases:** PostgreSQL, MongoDB, MySQL, MariaDB, SQLite, Firebase
- **Spoken Languages:** English and Arabic