ABDELMOUGHIT ECHCHARBINY

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Experience

FREELANCE
full stack developer 🔗
Casablanca, MA
Sep 2024 – Feb 2025

- 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