

Mohamed Bjaghrou

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PROFESSIONAL SUMMARY

Full Stack Developer with professional experience designing scalable backend services and modern web applications using NestJS, Next.js, TypeScript, MongoDB, PostgreSQL, RabbitMQ, and Docker. Experienced in microservices, REST APIs, database optimization, and authentication. Passionate about building maintainable, high-performance software with clean architecture and best practices.

EDUCATION

1337 ITSCHOOL

2021 - 2025

Khouribga, Morocco

Common Core curriculum focused on problem-solving, algorithms, low-level programming (C), and team-based projects., Self-paced, peer-to-peer learning with emphasis on software development, systems programming, and collaborative coding.

PROFESSIONAL EXPERIENCE

Full-stack Developer

UM6P – Mohammed VI Polytechnic University

July 2024 – Present

Benguerir, Morocco

- Developed and maintained production web applications using NestJS, Next.js, MongoDB, and TypeScript.
- Designed RESTful APIs and back end services supporting multiple university and government platforms.
- Built scalable microservice-based solutions using RabbitMQ
- Collaborated with frontend, backend, and DevOps teams to deliver production releases on schedule.

Full-Stack Developer Intern

UM6P – Mohammed VI Polytechnic University

Oct 2023 - Mar 2024

- Developed reusable frontend components using React and Next.js.
- Built backend APIs with NestJS and MongoDB.
- Improved database query performance through indexing and aggregation optimization.
- Participated in full software development lifecycle from design to deployment.

SELECTED PROJECTS

Smart Driving License

- Led backend development for the full system, including dashboard services and the car server interfacing with hardware.
- Designed and implemented backend APIs for the driving examination workflow.
- Built the car server backend to handle data exchange with in-vehicle hardware during driving exams.

Stremio

- Developed backend services for a video management and streaming platform
- Designed and implemented encoding and transcoding workflows for adaptive streaming.
- Developed APIs for playlists, video segments, access control, and content delivery.
- Built role-based access control for creators and viewers.

Gaia Lap

- Developed backend and frontend logic for a visual flow editor and simulation canvas.
- Implemented core features for drag-and-drop flow editing and simulation behavior.

Explicite

- Designed the data model and system architecture for lessons, activities, exercises, and learning workflows.
- Developed backend APIs for educational content management, user progress, and administrative operations.
- Implemented content creation, organization, and student progression tracking workflows.

TECHENICAL SKILLS

Languages: TypeScript, JavaScript, C, C++

Frontend: Next.js, React, HTML, CSS, Tailwind CSS

Backend: NestJS, Express.js, Laravel, FastAPI, Python

Databases: MongoDB, PostgreSQL

Tools & Technologies: Docker, Git, RabbitMQ, Microservices