Brahim Boumlik

in:Brahim BOUMLIK │ boumlik01brahim@gmail.com │ 0642963326

EDUCATION

1337 CODING SCHOOL   khouribga, Morocco
IT Architecture Expert (RNCP7)   *2021 – 2025*

SULTAN MOULAY SLIMANE UNIVERSITY   Beni Mellal, Morocco
Professional Degree in Computer Methods Applied to Business Management (MIAGE)   *2020 - 2021*

NATIONAL SCHOOL OF APPLIED SCIENCES (ENSA)   Berrechid, Morocco
University Diploma of Technology (DUT) in Computer Engineering   *2018 – 2020*

LYCÉE TECHNIQUE MOHAMED V   Beni Mellal, Morocco
Professional Baccalaureate in Computerized Maintenance of Networks (MIR)   *2018*

EXPERIENCE

FYGURS   Paris, France
TECHNICAL LEAD   *April 2024 - Present*

- Management & Leadership: Led a Scrum team of five engineers, managing sprint planning, task prioritization, and code reviews using Agile methodologies. Cultivated a results-driven culture focused on innovation, accountability, and continuous improvement to ensure high-impact software delivery.
- Front-End: Designed and implemented responsive, user-centric interfaces using Next.js, React, Tailwind CSS, and Webflow(no-code).
- Back-End: Engineered scalable and secure APIs using NestJS, Prisma, and PostgreSQL, ensuring efficient data flow and optimized query performance. Developed reusable backend modules supporting advanced analytics and AI-driven features.
- Architecture: Designed and implemented a microservices based architecture within a monorepo (Turborepo) structure, improving modularity, deployment speed, and maintainability. Defined architecture standards, enforced clean code principles, and oversaw CI/CD pipelines.
- Cloud & AI Infrastructure: Deployed and managed services on Azure Container Apps, Azure Database for PostgreSQL Flexible Server, Azure Container Registry, and Azure Blob Storage. Integrated GPT-4o and GPT-4o-mini models via Azure OpenAI Service to power intelligent features within the platform. Ensured scalability, reliability, and security through containerization, automated pipelines, and cloud-native best practices.

FYGURS   Paris, France
SOFTWARE ENGINEER   *October 2023 - March 2024*

- Front-End: Designed and implemented responsive user interfaces using Next.js, React, and Tailwind CSS, ensuring seamless user experiences across devices. Collaborated closely with the design team via Figma to translate product concepts into functional, visually consistent components.
- Back-End: Developed robust and maintainable APIs using NestJS, Prisma, and PostgreSQL, focusing on scalability, performance, and secure data handling. Implemented efficient database schemas and query optimization to support complex data operations.
- Architecture: Design and implement a microservices based architecture within a monorepo (Turborepo) setup, enabling modular development, improved code reuse, and simplified service integration. Supported version control, CI/CD, and service orchestration workflows.
- Cloud & DevOps: Deploy and manage application using Azure Container Apps, Azure Database for PostgreSQL Flexible Server, Azure Container Registry, and Azure Blob Storage. Ensured reliability and scalability through containerization, automated deployments, and secure cloud configuration.

PROJECTS

Full-Stack Web Applications (ft_transcendence, E-Commerce Website): Developed ft_transcendence, a real-time multiplayer web platform using TypeScript, Next.js, React, NestJS, Prisma, PostgreSQL, Socket.io, and Docker.Implemented authentication, chatrooms, game logic, and leaderboard features in a scalable, containerized architecture. Built a full-stack e-commerce platform using PHP Laravel, MySQL (phpMyAdmin), and React, integrating secure payments, inventory management, and order tracking.Strengthened full-stack proficiency, modern DevOps practices, and user-centric design for high-availability web systems.

Cloud & Virtualization Systems (Inception, Inception-of-Things, Cloud-1): Architected and deployed containerized environments using Docker and Docker Compose to manage multi-service applications. Built an IoT-based system prototype, integrating hardware simulation with cloud connectivity and network security layers. Gained practical experience in cloud orchestration, virtualization, and IaC principles for scalable deployments.

Cybersecurity & Systems Foundations (Snow-Crash, Rainfall, Override, ft_shield): Explored advanced cybersecurity concepts through Capture-the-Flag (CTF) challenges focused on reverse engineering, privilege escalation, and binary exploitation. Developed a strong command of Linux systems, low-level debugging, and secure programming practices. Designed and implemented defensive mechanisms to protect applications from buffer overflows, injection attacks, and privilege vulnerabilities.

Systems Programming & Operating Systems (minishell, KFS-1, KFS-2): Developed a custom Unix-like shell in C, implementing process management, pipes, signals, and redirections to deepen understanding of OS internals. Built a kernel-level file system (KFS-1 & KFS-2), implementing memory management, file operations, and low-level I/O handling. Strengthened expertise in C programming, system calls, and process synchronization.

Networking & Infrastructure (NetPractice, BGP At the Doors of Autonomous Systems is Simple): Simulated network topologies and configured routing protocols (BGP, OSPF) to understand real-world Internet routing systems. Analyzed and optimized packet transmission across autonomous systems, improving knowledge of routing tables, subnetting, and IP addressing. Built hands-on expertise in network design, configuration, and troubleshooting using virtual lab environments.

SKILLS

Technical: TypeScript, JavaScript, Python, PHP, C, C++, React, Next.js, NestJS, Django, Laravel, Prisma, PostgreSQL, Docker, Azure, Turborepo, Argo CD, Git, Kubernetes, CI/CD

Core Competencies: Software Architecture, Web Development, Project Management, Problem Solving, Leadership, Team Collaboration, Creativity & Innovation

Additional Skills: Version Control, DevOps, Cloud Architecture, Cybersecurity, System & Network Administration, Algorithms & AI, Object-Oriented Programming

Language: English: Fluent, French: Fluent, Arabic: Native