

Bilal Belli

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Portfolio : bilalbelli.tech

EXPERIENCE

Full stack Developer

Berger-Levrault - 6 months, 2025 - Toulouse, France

- Developed tools to migrate the data serialization format from JSON to Protobuf in Spring Boot REST APIs.
- Migrated the WeGF microservices platform code (Java Spring Boot, Angular) from REST to gRPC with Protobuf.
- Achieved up to 82% faster loading times in the WeGF application, validated through performance tests.
- Wrote Confluence documentation: installation and user guides, migration steps and test plan.

Software Engineer (Python)

Pradeo - 9 months, 2024 - Montpellier, France

- Developed a tool for detecting malicious behaviors in iOS applications. ([link](#))
- Designed a decompiler to reverse engineering iOS applications binary file.
- Automated algorithms for inter-procedural and intra-procedural static analysis (Taint analysis).
- Conducted unit, integration, functional, and technical tests, achieving high software reliability.
- Wrote a scientific paper updating the state of the art in malware detection techniques.

Web Developer (Node.js, HTML, Bootstrap, MySQL)

AlgeriaPartners - 3 months, 2022 - Algiers, Algeria

- Delivered a web application to manage company human resources hierarchy. ([link](#))
- Designed the web application prototype and UI/UX interfaces in Figma.
- Designed the database schema, Implemented functional requirements and deployed the app on Google Cloud.

EDUCATION

Master's Degree in Computer Science, Software Engineering

University of Montpellier

Montpellier, France

2024 – 2025

Engineering Degree in Computer Science, Computer Systems Engineering

Engineering School of Computer Science

Algiers, Algeria

2019 – 2024

SKILLS

- ◊ Python, Java, JavaScript, Typescript, HTML, CSS, Node.js, Spring Boot, Angular, Bootstrap, Flask
- ◊ SQL Server, Oracle DB, PostgreSQL, MySQL, NoSQL (Mongo DB, Firebase, XML)
- ◊ DevOps CI/CD (Git, Jira, Jenkins, Docker, Ansible), Playwright, Postman, SonarQube, Linux

PROJECTS

NetFilter - Chrome Extension (Javascript, HTML)

- Security tool that blocks malicious websites while browsing, based on an updated threat database.

Trendly - Tech Trends Website (Node.js, VueJS)

- Integrated, filtered, and ranked results from multiple APIs to identify trending tech topics.

MediaPlayer - Web Application (Node.js, Bootstrap, HTML)

- Tool for digital ad banners that allows displaying media elements with precise timing and order.

FilesConv - Productivity Desktop Application (Python)

- Integrated multiple APIs to convert various file formats, including support for processing multiple files at once.

NetBoost - Content Delivery Network Architecture Simulation

- Simulated a CDN using GNS3 and virtual machines for : cache servers, an origin server and a backup server.
- Used Nginx as a reverse proxy, Varnish for caching, Bind9 DNS server and Apache2 as a web server.