Marc Berbery | Software Engineer

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Education

Antonine University | Faculty of Engineering   Jun 2026

BE in Computer and Communications Engineering– Software Engineering and Networks

Collège des Sœurs des Saints-Cœurs Hadat   Jun 2021

Lebanese Baccalaureate in Life Sciences

Work Experience

FOO | Java Backend Intern   May 2025 – Aug 2025

- Migrated Backend services from Spring MVC to Spring WebFlux (Reactor) with R2DBC (H2/PostgreSQL), ran load and performance testing using K6, Apache JMeter to evaluate reactive non-blocking performance

- Designed SaaS-ready bundle processing for customer/points operations with all-or-nothing or Partial batch semantics; implemented dual ingress via REST and Kafka with idempotency for duplicate guards and documented end-to-end workflows.

- Implemented a foundational Loyalty System with layered design, JPA/Hibernate CRUD, Flyway migrations, and JUnit 5/Mockito testing.

- Built a Currency Exchange REST microservice (rates, supported currencies, timeseries) integrating a public rates API, Redis caching, and HTTP ETag; documented with Swagger and tested via Postman.

42 Beirut | Machine Learning Education Intern   Sep 2024 – Dec 2024

- Designed data cleaning exercises to teach students techniques for handling missing data, outliers, and data normalization, ensuring readiness for machine learning tasks.
- Contributed to the development of course materials, including presentations and documentation, to enhance the clarity and effectiveness of the machine learning curriculum.

BMB Group |Data Analytics Intern   Jul 2024 – Aug 2024

- Completed extensive training, mastering data visualization and integration techniques
- Assisted the team by preparing prototype dashboards and demos to aid in data visualization
- Integrated Python with tableau for advanced analytics, utilizing predictive models and other analytical techniques
- Explored, analyzed and Cleaned datasets, Created Comprehensive reports explaining findings

Skills & Abilities

- **Languages:** Java, Python, C++, C#, PHP, JavaScript
- **Backend:** Spring Boot, WebFlux, MVC, REST
- **Data:** PostgreSQL, Redis, SQL, H2, JPA/Hibernate, R2DBC
- **Messaging:** Kafka, MQTT
- **Testing & Tools:** JUnit, Mockito, Postman, Swagger, JMeter, k6, Git
- **Mobile & Other:** Android (Java/Kotlin), Firebase
- **Concepts:** OOP, DSA, Reactive programming
- **Soft Skills:** Problem Solving, Attention to detail, Communication, Teamwork, Adaptability, Debugging

Projects

Autonomous Delivery Robot: Android, MQTT, Firebase, Raspberry Pi,

Built an indoor autonomous delivery system using Raspberry Pi equipped with ultrasonic sensors, gyroscope, and IR modules.

- Developed an **Android control app** (Java) with real-time WebView streaming, MQTT communication, and QR-code–based location verification.
- Implemented autonomous navigation algorithms and manual override mode.
- Integrated **Firebase** for logging task history and device status.

Host Airbnb Web Application: Laravel, Authentication, Database Management, Responsive Design

Built a Laravel-based platform for managing property listings and bookings. Integrated authentication for user access control, implemented a database for storing property and booking details with a responsive design.