

# MARCELLUS MOHANNA

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## PROFESSIONAL EXPERIENCE

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**Software Engineer Consultant** | Callibrity | *Cincinnati, OH*

**December 2021 - October 2025**

Client: Fifth Third Bank | October 2024 - October 2025

- Enabled debit card replacement across ATM servicing workflows by designing and building a Java Spring Boot microservice with 6 REST endpoints, 2 Kafka consumers, 3 producers, and 5 database tables; supported infrastructure and deployments with Terraform and Jenkins CI/CD.
- Led technical design across 5 cross-functional teams, translating servicing requirements into REST contracts, Kafka event workflows, and third-party payment processor integrations.
- Designed a unified card lifecycle data model supporting legacy Worldpay/RAFT cards and modern FIS-backed debit cards, preserving backward compatibility without duplicating schema patterns.
- Implemented event-driven card processing workflows with Kafka, improving interoperability across online banking, mobile banking, ATM, and card domain systems.

Client: Flywire | December 2021 - October 2024

- Modernized a \$2.3B global payments SaaS platform using Java, Spring, AWS, Redis, MySQL, and GitLab CI/CD across reporting, email delivery, testing, and client-facing workflows.
- Redesigned 5 high-traffic client-facing reports by optimizing Hibernate and SQL queries, implementing server-side caching, and adding responsive JavaScript, reducing load times from 20 seconds to 1 second.
- Migrated email delivery from a local SMTP server to AWS SES using Java, improving delivery reliability.
- Built a LocalStack testing suite to mock AWS S3 and SES locally, reducing network dependency during development.
- Led an effort to increase test coverage of domain logic from less than 10% to 50% using JUnit 5 and Mockito.

**Software Engineer** | ODW Logistics | *Hamilton, OH*

**September 2021 - November 2021**

- Built and deployed 20+ features for the company's Trucking Management System using Java Spring and Angular.
- Led the transformation of internal time zone data of 1 million+ geolocation data points across 7 years using the TimeZoneDB API, reducing time zone ambiguity of internal data from 50% to 0%.

**Software Developer** | Treasurer of State of Ohio | *Columbus, OH*

**June 2020 - July 2021**

- Redesigned an external-facing banking application into a single-page application using .NET and Angular, reducing average page response time from 3 seconds to 0.5 seconds.
- Led an internal ledger dashboard project and facilitated sprint planning and daily stand-up meetings.

## SKILLS

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**Languages:** Java, JavaScript, TypeScript, Python, C#

**Backend:** Spring Boot, Node.js, REST APIs, Kafka, JUnit, Mockito

**Frontend:** Angular, JSP

**Cloud & DevOps:** AWS, Docker, Terraform, Jenkins

**Databases:** PostgreSQL, MySQL, SQL Server, Redis

## EDUCATION

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**Master of Science in Computer Science** - Georgia Institute of Technology

**January 2025 - May 2028**

**Bachelor of Science in Computer Science** - Miami University

**August 2016 - May 2020**

## PROJECTS AND INTERESTS

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**AI Language Learning Flashcard Maker** | [github.com/Marcellus97/WhisperToAnki](https://github.com/Marcellus97/WhisperToAnki)

Built a Node.js pipeline that converts foreign-language audio into Anki flashcards using OpenAI Whisper and FFmpeg, applying Codex-assisted workflows for prototyping, debugging, and refactoring.

**Italian Language Learning**

Formally studied Italian in an intensive language school from A0 to B2 level while living in Italy.