

Micah LaSala | Full Stack Developer

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Professional Summary

Versatile developer with hands-on experience designing and building full-stack applications using technologies like Angular, Spring, React, Node.js, AWS, and PostgreSQL. Passionate about backend development, automation, and performance-focused systems. Demonstrated ability to independently manage technical projects, quickly adapt to business needs, and deliver high-quality solutions across the stack. Eager to expand my expertise in DevOps and cloud infrastructure management.

Technical Skills

Languages: C#, Java, Javascript, SQL, Python, Rust, HTML, CSS, C++

Frameworks: React, Angular, Spring, .NET, ASP.NET, NodeJS, React Native, TensorFlow

Platforms: AWS, Azure

Additional Tools: Jira, Git, Docker, Gradle, Visual Studio, VSCode, IntelliJ, Android Studio

Practices: Performance Optimization, REST APIs, MVC, Database Design, Security Planning

Work Experience

Full Stack Developer

NC State University Aug 2025 - Present

- Develop fullstack features using Spring, Angular, and PostgreSQL
- Investigate and diagnose issues in AWS Cloudwatch, ECS, EC2, and RDS
- Proactively identify and investigate possible security vulnerabilities and opportunities to improve systems
- Lead developer for major rework of a core system, involving extensive research, design, documentation, and testing
- Mentor junior employees in design decisions, tooling, and best practices

Full Stack Engineer

Dabbel Inc Mar 2025 - Jun 2025

- Major contributor to architectural and design decisions across the technology stack
- Designed and implemented features in React Native and NodeJS
- Configured interactions with various web services, including CI/CD, cloud storage, auth

Education

University of North Carolina at Charlotte, Charlotte, NC | May 2024 (3.20 GPA)

Bachelor of Computer Science | Concentration: Software, Systems, and Networks

- Software Engineering, Cloud Computing, High Performance Computing, Database Design and Implementation, Operating Systems, Data Structures and Algorithms

Certificates

Microsoft AZ-900: Azure Fundamentals (Feb 2025)

Projects

RABapp (Centralized Inter-State Livestock Safety Database and Management Portal)

- **Spring, Angular, AWS, PostgreSQL, Python**
- Constructed a pipeline to efficiently validate, transform, and stream raw data into a production database
- Developed quality of life tools to simplify common developer tasks and automate business requirements
- Refactored underengineered APIs to improve readability, security, and maintainability
- Identified and remediated bottlenecks in core queries, resulting in a 40% reduction in runtime

Async Procedural Geometry FFI Library (Polyspheres)

- **Rust, Tokio, ASP.NET, React, BabylonJS**
- Designed and implemented a Rust library that performantly generates high quality seamless geometry for procedural polygon-tiled spheres, using a novel algorithm.
- Created a well-documented, user-friendly API exposed through FFI, allowing developers to use the library in any programming language or environment.
- Provided extensive documentation and code examples, including an ASP.NET server and web visualizer.

Cross-Platform P2P Messaging App

- **React Native (Web, Paper, WebRTC)**
- Developed a peer-to-peer chat app to allow seamless text and file transfer directly between devices.
- Implemented WebRTC ICE Handshake supported by a minimalist signal server to minimize reliance on third-party servers during communication.

3D Exoplanets Data Visualizer

- **React, BabylonJS, PostgreSQL, NodeJS, WebGPU**
- Designed and built a web-based 3D visualizer for data from the NASA Exoplanets Archive.
- Optimized rendering performance to performantly display thousands of stars in-browser.
- Used an ETL workflow to process data from multiple sources into a usable format.

Full Stack Image Ranking SPA (UNCC Capstone)

- **React, ASP .NET, PostgreSQL, Azure, Kubernetes, MUI, Docker, Entity Framework**
- Self-directed research, design, and E2E development of a full-stack web application.
- Architected a scalable, containerized deployment environment using Azure Kubernetes Services.