

# Immanuel Monroe

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## Summary

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Career changer from Social Work into Software Engineering. Through the Resilient Coders fellowship and freelance contracting, I have built full-stack applications, REST APIs, and scalable data systems. I bring problem-solving, adaptability, and strong communication skills from my social work background into software development.

## Experience

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**Software Engineer**, Manna Inc. – Philadelphia, PA January 2023 – Present

- Engineered core backend services (Shopify API integration, PostgreSQL, secure secrets) via Google Cloud Functions for a financial management tool using Nx, Node.js/Express, and React, automating e-commerce and banking data aggregation.
- Resolved a nil pointer dereference in a GraphQL resolver by adding session null checks, preventing crashes for unauthenticated requests and improving API reliability.
- Streamlined backend performance by implementing a custom data filter to eliminate duplicate API responses, reducing page load times from 5 seconds to 2 seconds, and enhancing data integrity and application responsiveness.
- Developed full CRUD operations by building a Spring Boot REST API with PostgreSQL, connected to a Next.js frontend, and used Docker for consistent local environments, improving development efficiency and data reliability.

**Software Support Engineer**, InformData – Remote Feb 2024 – July 2024

- Reduced team ticket closeout time by diagnosing and resolving an error in the system that impacted daily error queue report delivery, leveraging DataDog and AWS (S3) for log analysis and client API payload verification.
- Resolved a ticket credit allocation error by optimizing complex SQL queries and implementing data integrity checks, restoring accurate vendor metrics crucial for fair performance reviews and preserving strong vendor relations.
- Increased system uptime by resolving recurring page crashes through implementing data validation scripts to address relational database null values on user records reported by external vendors.

## Skills

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**Language:** HTML, CSS, JavaScript, TypeScript, Python, SQL, Java

**Database:** Microsoft SQL Server, Firebase, SQLite, PostgreSQL, MongoDB

**Frameworks/Libraries:** Node.js, React, React Native, Express.js, EJS, Spring Boot, Tailwind CSS, Nativewind, Bootstrap

**Tools/Platforms:** Git, Docker, AWS, Linux, CI/CD, Jira, Postman, DataDog, Jest, Playwright, Expo Go

## Projects

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**Eremos – AI-Powered Mental Health Journal** github.com/immonroe/eremos

- Integrated Gemini AI API to generate personalized mental health reflections from user entries, enhancing core app value and AI-driven insights.
- Developed a responsive analytics dashboard using Chart.js to transform raw journaling data into visual streaks, trends, and usage patterns, increasing user engagement and retention.
- Streamlined MongoDB queries and EJS components to reduce memory use and speed up page loads while maintaining MVC architecture.

**SafeRoute – Community Safety Map** safe-route-6iqv.onrender.com

- Engineered a full-stack interactive map with Leaflet.js, Node.js/Express.js, and MongoDB, enabling real-time, anonymous community incident reporting and increasing local awareness.
- Implemented secure user authentication and session management using Passport.js/bcrypt, ensuring safe, reliable access.
- Integrated Node-Geocoder, Cloudinary, and Multer for geocoding, secure image uploads, and accurate map plotting.
- Designed and implemented auxiliary Mongoose schemas to structure backend data, improving maintainability and supporting scalable application features.

## Education

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**Resilient Coders – Software Engineering Fellowship** January 2025 - June 2025

**University of Valley Forge – BS in Social Work** April 2018