

Immanuel Monroe

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Experience

Software Engineer, Resilient Coders – Philadelphia, PA

Jan 2025 – Present

- Proposed and implemented a dynamic map interface unifying geolocation and weather data from disparate APIs, significantly increasing user engagement and click-through rates on map features.
- 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.
- Proactively diagnosed and resolved a critical dependency misconfiguration that prevented local environment builds for the team, restoring development stability.
- Developed a user-centric analytics dashboard transforming raw user data into insightful visualizations (streaks, trends, usage patterns) leveraging Chart.js, significantly enhancing application engagement and user experience.
- Collaborated with the engineering team to secure diverse client contracts, directly generating ~\$40,000 in additional revenue and contributing to agency growth.

Software Engineer (Contract/Freelance), 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 built on Nx, Node.js/Express, React, automating e-commerce and banking data aggregation.
- Optimized API performance efficiency for a Go/GraphQL/PostgreSQL application by implementing Dataloaders in critical gqlgen resolvers, effectively resolving N+1 query issues improving data fetching for complex relationships.
- Scaled multiple businesses by creating full-stack online presence initiatives, driving significant sales growth and expanding market reach.

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

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

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

Frameworks/Libraries: Node.js, React, Express.js, Spring Boot, Tailwind CSS, Bootstrap

Tools/Platforms: Git, Docker, AWS (S3), Linux, CI/CD, Jira, Postman, DataDog, Jest, Playwright, unittest

Projects

Eremos – AI-Powered Mental Health Journal

github.com/immonroe/eremos

- An AI-powered mental health journaling application leveraging Gemini AI to provide personalized reflections and insights, while optimizing application performance through streamlined data loads and memory usage, ensuring a responsive user experience with integrated data analytics and visualization.

SafeRoute – Community Safety Map

safe-route-6iqv.onrender.com

- A full-stack, real-time community safety application for map-based incident reporting. Engineered robust MVC architecture across the frontend and backend (Node.js/Express.js/RESTful API, Passport.js for authentication, bcrypt for password hashing; Multer and Cloudinary for secure image handling), and implemented CI/CD pipelines.

Education

University of Valley Forge – BS in Social Work

April 2018