

Colby Miller

Principal Software Engineer

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Passionate Full Stack Software Engineer with expertise in building scalable web and mobile applications. Focused on creating elegant solutions that combine beautiful front-end experiences with robust back-end architectures. Proven track record of leading projects, mentoring developers, and delivering high-impact results that drive business growth.

Skills

Languages: JavaScript, TypeScript, HTML, CSS, Ruby, Java, SQL, GraphQL, NoSQL

Frameworks: React, Node.js, Express, NestJS, Angular, Astro, Next.js, React Native, Ionic, Ruby on Rails

Tools: Git, Docker, AWS, Google Cloud, Firebase, Heroku, MongoDB, PostgreSQL, Shell Scripting, Kubernetes

Concepts: REST APIs, Microservices, CI/CD, Agile/Scrum, DevOps, AI

Experience

Moser Consulting

Baltimore, Maryland (Remote)

Principal Software Engineer

August 2014 - Present

- **Statewide Chat/Messaging App:** Led development and architecture of a cross-platform communication solution (PWA and native app) for Indiana's Department of Family Resources, transforming outdated in-person workflows into efficient digital communication between residents and case managers.
- **Military Flight Logbook SaaS:** Took over as lead developer of an established logbook application for pilots, integrating automatic flight calculations, logging, detailed reporting, and a mobile redesign with PWA capabilities to enhance usability.
- **E-commerce Fluid Testing Platform:** Engineered RESTful APIs and modern front-end interfaces to automate monthly/weekly invoicing, manage inventory, and streamline fluid testing workflows, achieving a 50% reduction in processing time.
- **Healthcare Document System:** Developed a document scanning and upload system for Maryland's DHS cloud platform, automating manual processes and saving counties \$1M annually.
- **Core Internal Applications:** Developed and maintained core internal business tools, including time tracking and consulting management platforms, while helping create a shared UI library for consistent application design.
- **Internship Program Lead:** Mentored interns on full-stack development, guiding the creation of projects like a iOS/Android mobile app for company catered lunch tracking, while fostering future technical talent.
- **Contract Proposal Management App:** Led the development and architecture of an internal contract proposal management app, streamlining proposal workflows and improving accuracy for the team.
- **Call Center Automation:** Automated call center workflows by categorizing call data with developed applications, freeing up 60% of resources and enhancing data-driven decision-making for healthcare clients.

IBM

Fairfax, Virginia (Hybrid)

Business Intelligence Consultant

June 2013 - July 2014

- *Designed and implemented end-to-end data solutions, including ETL processes, Data Warehouse development, and back-end object creation to support business intelligence reporting.*
- *Developed functional specifications, user test plans, and custom front-end reports, transforming complex data into actionable insights.*

Education

West Virginia University

B.S in Management Information Systems

2009 - 2013

- Vice President and Officer of WVU's MISA (Management Information Systems Association)