

Lloyd McIntyre

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SKILLS

Languages: Golang, Swift, Kotlin, Java, TypeScript

Platforms: iOS, Android, React, PostgreSQL, AWS, Digital Ocean

Practices & Tooling: git, Docker, TDD, CI/CD, gRPC, Twirp, Protobuf

EXPERIENCE

Compliance Services—*Principal Full-Stack Software Developer*

Jan 2018 - Present

In 2016, as a student at West Virginia University, I initiated my career with Compliance Services as a contractor, focusing on modernizing their software infrastructure. My initial project involved transitioning the field technicians' software from the Parse platform to a robust PostgreSQL and Golang-based backend, significantly enhancing system performance.

Post-graduation, I joined the team full-time, spearheading the integration of real-time gas and temperature telemetry systems. This pivotal role not only improved operational efficiency but also played a crucial role in diversifying the product offerings of Compliance Services, leading to expanded market reach and enhanced service capabilities.

- Led the development and operations of a custom software suite designed to support hazardous gas monitoring services in the oil & gas sector, servicing locations nationwide.
- Developed a backend application server utilizing Golang, PostgreSQL, and gRPC, ensuring high performance and reliability for mission-critical operations.
- Created an intuitive Swift-based iOS application, facilitating mobile access for field operators and customers.
- Architected and implemented telemetry integrations with Geoforce, a satellite connectivity and data platform. I worked with external development teams to manage requirements and assure successful delivery of the product.
- Contributed significantly to the generation of \$4 million in annual revenue through software-driven operational enhancements.
- Spun up digital infrastructure on Digital Ocean to minimize hosting costs and reduce administrative burdens.

↳ **Traverse Employee Care (Compliance Subsidiary)**—*Principal Full-Stack Software Developer*

Sept 2021 - Present

Within an ambitious 2-month timeframe, I led a small team of developers to build out the Traverse platform, which was initially conceived as a COVID testing and tracking service for the Oil & Gas industry. This innovative solution rapidly generated significant revenue, achieving over \$400k mmm during peak COVID restrictions.

My contributions were pivotal in securing a mobile CLIA license in West Virginia, and in the strategic employment of nurses for on-site screenings. I was instrumental in designing and implementing the overall architecture of Traverse and the system for logging results and issuing both digital and physical passes post-verification. Demonstrating exceptional adaptability, I also guided the platform's seamless transition to drug screening compliance for DOT-regulated organizations post-COVID, further extending its utility and market relevance.

- Managed a team of software engineers, fostering a collaborative work environment.
- Served as a cross-functional stakeholder, operating between software development, operations, and sales teams to align development with the needs of the organization
- Integrated with Labcorp backend SOAP API to enable customers to order DOT & NDOT drug screening panels.
- Designed and implemented physical and digital processes for disbursing unique COVID test result passes.
- Full dev and prod AWS buildout with VPC architecture featuring: Jenkins Build Server, Amazon Aurora PostgreSQL, ElasticBeanstalk scalable deployments, and an OpenVPN access server.
- AWS cost management.

↳ **BondWay (Compliance Subsidiary)**—*Principal Full-Stack Software Developer*

Dec 2019 - Dec 2021

In the Oil & Gas industry, there is a critical challenge where roadways often suffer heavy damage due to improper routing of heavy loads, leading to significant repair costs and liabilities for production companies. Recognizing that traditional methods (like Excel spreadsheets) provided unclear routing instructions, I spearheaded an innovative solution to digitize these routes.

My primary objective was to develop a high-quality turn-by-turn routing system that exclusively utilized insured and safe roads. By transforming these spreadsheets into a digitized, routable graph, I effectively minimized off-route damages and ensured compliance with insurance policies. This initiative not only enhanced operational efficiency but also significantly reduced financial risks associated with roadway damages and on-time delivery.

- Concepted & developed a customized navigation system for the Oil & Gas industry utilizing the OpenStreetMap database and OSRM.
- Developed an iOS, Android, and Web platform for accessing the BondWay navigation system to safely route heavy machinery to and from Oil & Gas locations.

- Utilized Mapbox routing SDKs on iOS and Android to provide a high quality turn-by-turn navigation experience to our users, while sourcing those routes from our own OSRM instances.
- Created a mixed platform deployment using AWS EC2 and Digital Ocean droplets to minimize costs.

RIVIGA LLC — Owner & Sole Operator

Jan 2016 - Jan 2018

Riviga LLC is the software company that I started during college to support my education. I worked with Compliance Services and other companies in a part time development role.

EDUCATION

West Virginia University, Morgantown — Computer Engineering, BA

July 2014 - July 2019

I completed the computer engineering bachelor's program at WVU in 2019.