Cole Reid

colereid@gmail.com | colere.id/resume | github.com/colebowl | +1 403 431 2207

Full-stack software developer with 19+ years experience delivering mission-critical applications, leading software teams, and deploying on cloud infrastructure looking for positions at purpose driven companies.

Experience

Sabbatical   **Jul 2024 – Present**
- Travelled to France, Australia and New Zealand; currently in residency at Recurse Centre, building at the edge of my abilities, focusing on generating insights from road cycling race data using statistical analysis and ML in Go, Python and TypeScript

Polymon.cloud, Technical Founder/*CTO and Lead Developer (1 day/week)*   **Jan 2023 – Jul 2024**
- Translated product vision into actionable technical strategy, aligning with non-technical founders and stakeholders—successfully launching a robust IoT monitoring and metering platform in a remote, hostile environment for a global satellite services provider
- Selected IoT gateway hardware, designed cost-efficient AWS infrastructure, and authored IaC using CDK/TypeScript and Shell scripts—enabling repeatable serverless deployments and robust device-cloud integration
- Delivered all features in TypeScript/JavaScript, including real-time dashboards, trigger-based workflows, automated billing, and streamlined onboarding—deploying a production-ready IoT solution on time, within budget

Nutrien, *Lead Frontend Developer (4 days/week)*   **May 2022 – Jul 2024**
Cloud Modernization/Replatforming Project
- Led front-end development to migrate 5 legacy applications using micro-frontend architecture in TypeScript/React allowing for decommissioning of end of life software and hardware
- Architected AWS cloud infrastructure and automated build/deploy pipelines using CDK, TypeScript and CircleCI, enabling repeatable, reliable branch-based infrastructure configuration and application deployments
- Maintained code quality via code reviews, dependency audits, and architectural decisions; reduced technical debt and contributed to cross-org architecture strategy, including development and adoption of shared application components

Freelance Software Developer   **Sep 2021 – May 2022**
- Conducted end-to-end code review for an IoT agriculture startup, identifying critical risks and gaps in best practices—enabling the client to make an informed hiring decision for their next developer
- Modernized a legacy HMI for an industrial automation client using ES6-compliant vanilla JavaScript—establishing a clean, maintainable foundation for future development

Nutrien, *Lead Frontend Developer*
Electronic Work Permitting Application Project   **Jan 2020 – Sep 2021**
- Delivered all features of e-Permitting application using React, Redux, Material UI, and Form.IO—digitizing thousands of work permits weekly across 5+ ammonia facilities; boosted search performance >200% via OpenSearch query optimization and architectural support for backend API design
- Designed AWS infrastructure and wrote CDK-based IaC; implemented CI/CD pipelines with CircleCI to enable automated deployments across multiple environments

Testfire Labs, Senior Software Developer   **Jun 2018 – Dec 2019**
- Led front-end development and contributed backend features including building a live transcript editor frontend and integrating calendar synchronization (Office 365, Google Calendar) using React, Redux, Node.js and PostgreSQL — enhancing user integration and live transcription experience
- Designed and built a cross-platform React Native mobile app utilizing computer vision to assess cannabis plant

health—successfully deployed to the App Store and Google Play as one of the first AI tools in the space

Pre 2018 experience available on request

Skills

Languages: TypeScript, JavaScript, Go, Python, PHP
Cloud: AWS, Cloudflare, GitHub, CircleCI, Sentry, Grafana, ElasticSearch, Docker
Databases: PostgreSQL, MongoDB, InfluxDB, DynamoDB, Redis

Education

NMIT Melbourne – Certificate IV Internetworking   Dec 2005