

Brock Chelle

Senior Full Stack Software Engineer

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Skills

- Ruby on Rails | TypeScript | React | Go | Node | MySQL | Snowflake | MongoDB | Redis
- Git | Docker | Datadog | Grafana | CircleCI | Concourse | Protocol Buffers | gRPC
- Agile | CI/CD | Distributed Systems | Microservices | OOP | TDD | APIs | Scalability | Observability | IAM

Experience

Lime | Senior Full Stack Software Engineer

Remote 09/2023 - Current

- Reduced query timeout errors on our **MySQL** database by over 95% by identifying inefficient queries and opportunities for improving database indexes on the relevant tables.
- Designed an approvals framework in **Ruby on Rails** and **React** that enables engineers to wrap high-risk actions with an approvals workflow to achieve SOX compliance. This reduced the average duration to develop an approvals workflow from 2 months to 3 days, saving over \$250,000 to date.
- Developed an Attribute Based Access Control (ABAC) system to enable more granular and restrictive access for our 3,000+ operators around the world.
- Architected a system to automate the process of launching, and pausing regions that Lime operates in to significantly reduce costly incidents caused by error-prone manual processes.
- Developed and maintained dashboards, automated monitors, and runbooks in **Datadog** for our teams on-call rotation to measure system health and SLO's.

DigitalOcean | Software Engineer II

Remote 09/2022 - 02/2023

- Architected **gRPC** endpoints in **Go** and **Protocol Buffers** to identify and resolve over \$10,000,000 in inaccessible IP Addresses and identify the top consumers of IP Addresses across all 15 data centers.
- Reduced the latency of a critical service from 500ms to 10ms by safely transitioning the service to a **MySQL** datastore and deprecating the legacy datastore once the transition was complete.
- Designed and Deployed **Grafana** dashboards to give metrics on our pool of over 1,000,000 IP Addresses regarding available, used, and wasted IP Addresses across all 15 data centers.

Tesla | Full Stack Software Engineer

Remote 05/2021 - 09/2022

- Led the development of the company's identity and access management platform used by over 10,000 employees to ensure that only authorized users with valid credentials can perform actions on vehicles.
- Engineered **gRPC** microservices in **Go** and **Protocol Buffers**, and **REST APIs** in **Ruby on Rails** for a globally distributed production environment that receives over 1,000,000 requests per hour.
- Decreased the latency of several high-volume endpoints by over 95% using **Sidekiq** for background job processing and **Redis** for caching the results of intensive queries.
- Simplified the company tooling for troubleshooting failed firmware updates which saved over \$100,000 per month in lost time and reduced the time of firmware-related service center visits by 50%.
- Built pipelines and jobs for 10+ services to automate testing, linting, building **Docker** images, and deploying to **Kubernetes**.

Education

University of Alberta | Bachelor of Engineering

- Major in Computer Engineering, Specialization in Software Engineering

Projects

- **Portfolio**: The website I built in **React**, **Typescript**, and **TailwindCSS** to showcase my development skills.
- **CollaboGreat**: A project management tool to create, assign, and track tasks across a distributed team.
- **TypeTrial**: An online typing game where users can improve their typing speed and challenge their friends.

[Live Demo](#)