

# Alex Drover

◀ alexfdrover.github.io ⚡ github.com/alexfdrover ✉ alexfdrover@gmail.com 🗺 Vancouver, BC

## Experience

### **Co-creator, Software Engineer**

07/2021 - 01/2022

*Monsoon*

Monsoon ([monsoon-load-testing.github.io](https://monsoon-load-testing.github.io)) is an open-source, serverless framework for running browser-based load tests in the cloud.

- Architected and built a serverless, auto-scaling, streaming ETL pipeline using AWS Fargate, S3, Lambda and Timestream to centralize metrics from remote nodes in a distributed system to a serverless time-series database.
- Developed and containerized a Node application that uses headless Chrome instances to simulate virtual user actions and extract session metrics.
- Built a CLI wizard for configuring and deploying all project components, as well as automating hundreds of AWS CDK API calls in deploying, operating, and tearing down the infrastructure.
- Developed a dashboard for querying, graphing, and exploring the collected metric data from AWS Timestream in near real-time using React and VictoryChart.
- Authored technical case study and tech talk, viewable at [monsoon-load-testing.github.io](https://monsoon-load-testing.github.io)

### **Software Engineer**

03/2020 - 07/2021

Developed various open source, full-stack web applications using Rails, React / Redux, Express, Node.js, Sinatra, PostgreSQL, MongoDB, and more.

### **Environmental Scientist**

03/2018 - 03/2020

*Vortex Group*

## Skills

### **Languages**

*Ruby, JavaScript, Golang, SQL, HTML/CSS*

### **Frameworks**

*React, Redux, Rails, Express, Sinatra*

### **Misc Competencies**

*Git, Github, Linux, Node, HTTP, OOP, REST API, PostgreSQL, MongoDB, AWS, CDK / SDK, Docker*

### **Cloud / AWS**

*Lambda, Fargate, ECS, S3, EC2, Timestream, EventBridge, IAM, CloudFormation, CloudWatch*

## Education

### **Software Engineering (Capstone)**

03/2020 - 01/2022

*Launch School*

Multi-year, mastery-based software engineering curriculum, with progression gated by written exams and live coding interviews to develop problem solving and technical skills. Read more at [launchschool.com/employers](https://launchschool.com/employers)

### **Bachelor of Applied Science - Civil Engineering**

11/2011 - 03/2017

*University of British Columbia*