



SCOTT GRAHAM | Software Engineer

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San Francisco, CA

TECHNICAL PROJECTS

Creator & Software Engineer, Seymour (<https://seymour-active-monitoring.github.io/>)

April 2022 - present

Seymour is an open-source, easy-to-configure active monitoring tool that enables users to test production API endpoints for availability, performance and correctness by scheduling custom HTTP requests originating from over 20 global locations

- Created backend service with endpoints to configure, edit, view and delete tests (Node/Express, PostgreSQL, AWS SDK, RDS)
- Built UI to create and manage tests and view results (React/Redux, Tailwind CSS, D3, Elastic Beanstalk)
- Automated the deployment of AWS infrastructure using Cloud Development Kit (up to ~50 components across multiple regions)
- Decoupled system components by using AWS's managed messaging services (SQS, SNS)
- Reduced system load by using custom message attributes with AWS SNS topic subscription filtering
- Built a notification system that triggers alerts via email, Slack or Discord in the event of a failed test (Lambda, SES)
- Designed ERDs to model storage of test configuration and results data
- Applied Agile principles to manage tasks, set deadlines and identify roadblocks for a remote team of four engineers
- Authored technical case study  covering engineering design decisions and tradeoffs

PROFESSIONAL EXPERIENCE

Software Engineer, Uber

April 2020 - May 2021 | San Francisco

- Re-built (within team of four) the experiment configuration service as a part of large-scale, high-priority effort to enhance A/B experimentation quality and flexibility
- Implemented validation logic for new and edited experiment configurations (Go)
- Led the implementation of experiment lifecycle rules/notifications and the management of dependencies between experiments (Go, Kafka)
- Extended the legacy experiment configuration service to detect and issue experiment quality warnings before persisting changes (Go, MySQL)

Data Scientist/Engineer, Uber

February 2016 - March 2020 | San Francisco

- Led data engineering for A/B experiment monitoring service used by product managers, engineers and data scientists to determine if mobile and backend experiments cause unintended regressions in key company metrics (Python, SQL)
- Maintained ETLs processing billions of rows daily (Python, SQL)
- Built and maintained internal operational and financial analytics dashboards used by 1000+ of global employees weekly (R/Shiny, Python, SQL)
- Established framework and reporting to quantify the quality of mobile experiments (R/Shiny, Python, SQL)
- Led data effort to identify and remove unneeded or stale feature/experiment flags across all company repos

Operations & Logistics Manager, Uber

July 2014 - January 2016 | Toronto

- Led the launch of Uber in Ottawa. Member of the launch team in six markets

SKILLS

Languages

JavaScript, Ruby, Go, Python, R, SQL, HTML, CSS

Frameworks & libraries

Express, React, Redux, Jest, Handlebars, Sinatra, Minitest, ERB, Flask, Shiny, Tailwind CSS, D3

Cloud

AWS (EC2, Elastic Beanstalk, Lambda, SQS, SNS, RDS, S3, EventBridge), Heroku, DigitalOcean Droplet

Other technologies & skills

PostgreSQL, MySQL, MongoDB, Redis, Kafka, Nginx, Git, GitHub, HTTP, REST, Docker, OOP

EDUCATION

Software Engineering, Launch School + Capstone

2021 - 2022

- Full-stack software engineering curriculum emphasizing mastery of fundamentals
- Courses in Data structures & algorithms, OO (Ruby, JS & Go), Networking, Databases, Systems design, HTML/CSS, DOM manipulation
- Built Snaggl, a request bin clone and Trellific, a Trello task-management clone

B.ASc, Mechanical Engineering, University of Toronto

2010 - 2014

- Dean's Honor List (3.9 GPA) and T-Holders Academic Excellence Award for first-class academic honors
- Received a National Sciences and Engineering Research Council (NSERC) Undergraduate Student Research Award (USRA) for research in microfluidics
- Minors in bioengineering and robotics