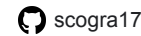
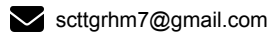




SCOTT GRAHAM | Software Engineer



PROFESSIONAL EXPERIENCE

Software Engineer, Rocket Money (Truebill)

September 2022 - present | Remote

- Led multi-month design and implementation of new debt consolidation flow (Typescript, React Native, PostgreSQL, GraphQL, 3rd party integration), generating millions in annualized revenue. Helped design and owned implementation of experimentation to optimize flow
- Part of the personal finance manager team, responsible for subscription cancellation and bill negotiation flows. Deliver client and API features/bug fixes across the web app , native app , and internal admin tools (Typescript, React, React Native, PostgreSQL, GraphQL)

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/Data 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

TECHNICAL PROJECTS

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

April 2022 - September 2022

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

SKILLS

Languages

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

Frameworks & libraries

Express, React, React Native, 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, GraphQL, REST, Docker, OOP

EDUCATION

Software Engineering, Bradfield School of Computer Science & Launch School

- Courses in Data structures & algorithms, OO (Ruby, JS & Go), Networking, Databases, Systems design

B.ASc, Mechanical Engineering, University of Toronto

- 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 Undergraduate Student Research Award (USRA) for research in microfluidics
- Minors in bioengineering and robotics