

# ROBERT LIN

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## PROFESSIONAL EXPERIENCE

### Software Engineer IC2 | Sourcegraph, Inc.

7/2021 - PRESENT

GOLANG, POSTGRESQL, KUBERNETES, API INTEGRATIONS

REMOTE

- Designed and implemented a 10x faster algorithm for mirroring permissions from GitHub instances with over 5,000 users and 10,000 repositories, and updated database queries to work with the increased scale
- Lead the investigation, design, and proof-of-concept implementation of an extended permissions model for Sourcegraph, collaborating with many teams to implement integrations in each product area
- Made extensive contributions to Sourcegraph's dev tool, continuous integration, and observability tooling

### Software Engineer Intern | Sourcegraph, Inc.

5/2020 - 1/2021 | 9 MOS

GOLANG, TYPESCRIPT, GRAPHQL, KUBERNETES, PROMETHEUS, DOCKER

REMOTE

- Developed a framework for engineers to define monitoring for their services which automatically generates dashboards, alerts, and documentation for use in monitoring Sourcegraph.com and on-premise deployments
- Enabled admins to easily configure alerting by creating a sidecar service packaged with Alertmanager
- Worked on scripts and tooling to automate release processes and internal deployment pipelines

### Software Developer (Part-Time) | Sumus Properties Group Ltd.

10/2019 - 3/2020 | 6 MOS

JAVASCRIPT, TYPESCRIPT, NODEJS, MONGODB, REACT

REMOTE

- Created a plugin to automate aggregation of property data and report creation in Figma (design tool)
- Implemented features for an internal investment management platform to monitor the company's properties

### Software Engineer Intern | Riot Games, Inc.

5/2019 - 8/2019 | 4 MOS

GOLANG, JAVASCRIPT, REACT, MONITORING

LOS ANGELES, CALIFORNIA

- Standardized how alerts are defined by hundreds of microservices by writing an RFC design and driving cross-team discussions on a specification for defining alerts, as well as implementing and rolling out the design
- Streamlined alert triaging by building a graph-based relationship browser to display relations between incidents, powered by a pipeline that ingests data from various sources to create edges in the graph

### Software Engineer (Part-Time) | RTrade Technologies Ltd.

9/2018 - 4/2019 | 8 MOS

GOLANG, GRPC, DOCKER, POSTGRESQL

REMOTE

- Built a new product by implementing a service to resiliently orchestrate nodes for distributed filesystems
- Improved results and performance for our search engine by adding OCR text extraction for image content

### Bioinformatics Co-op | Michael Smith Genome Sciences Centre

1/2018 - 8/2018 | 8 MOS

JAVASCRIPT, NODEJS, POSTGRESQL, REACT, PYTHON, ELASTICSEARCH

VANCOUVER, BRITISH COLUMBIA

- Built a new Node.js server that provided key functionality for 4 DNA analysis workflows and 3 websites
- Enabled visibility into the performance of analysis pipelines by integrating Elasticsearch and APM

## OPEN SOURCE

For projects I've worked on, check out [my GitHub profile](#) and [blog!](#)

## EDUCATION

### University of British Columbia

VANCOUVER, BRITISH COLUMBIA

B.SC. IN MATHEMATICS

SEPT 2016 - MAY 2021

- Tech lead, UBC Launch Pad (9 months): mentored and lead 3 student teams on full-stack projects
- Co-president, UBC Launch Pad (14 months): coordinated the club of 50+ students and built club tools