

ROBERT LIN

✉ robertlin1@gmail.com | 🏠 bobheadxi.dev | 📷 bobheadxi | 🌐 robert-lin

WORK EXPERIENCE

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

REMOTE

JAVASCRIPT, NODEJS, MONGODB, REACTJS

OCT. 2019 - PRESENT

- Improving iteration and delivery cycle of upcoming product by building out development and deployment tooling

Riot Games, Inc. | Software Engineer Intern

LOS ANGELES, CALIFORNIA

GOLANG, JAVASCRIPT, REACTJS, D3.JS, GRAPH DATABASES, ELASTICSEARCH, MONGODB

MAY 2019 - AUG. 2019

- Wrote and published an RFC for defining alerts in our service specification by driving a cross-team design effort
- Laid the groundwork for improved cross-region service visibility and integration with new metrics vendors by implementing and deploying the new specification, which saw use by 20+ services within the first month
- Improved how operators do root cause diagnosis of alerts across microservices by building an alert visualization web app and data pipeline to link alerts based on similarities (such as network topology)

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

REMOTE

GOLANG, GRPC, DOCKER, POSTGRESQL, TRAVIS CI, TESSERACT

SEP. 2018 - APR. 2019

- Built a new product by implementing a service to orchestrate nodes for isolated peer-to-peer distributed filesystems
- Improved results and performance for our search engine by revamping it, adding a gRPC API, and integrating OCR

Michael Smith Genome Sciences Centre | Bioinformatics Co-op

VANCOUVER, BRITISH COLUMBIA

JAVASCRIPT, NODEJS, POSTGRESQL, REACTJS, PYTHON, ELASTICSEARCH

JAN. 2018 - AUG. 2018

- Reduced average data load times by 80%+ and enabled new data views and reports by building a new Node.js server that became the core of the team's 4 DNA analysis workflows and 3 websites
- Enabled visibility into the performance of our analysis pipelines by setting up an Elasticsearch and APM deployment

EXTRACURRICULAR

UBC Launch Pad | Tech Lead

WWW.UBCLAUNCHPAD.COM

UBC'S STUDENT-RUN SOFTWARE ENGINEERING CLUB

JAN. 2018 - AUG. 2019

- Provided support and mentorship as tech lead of a total of three 5-10 student teams on web-based projects
- Introduced students to dev concepts by giving talks, workshops, and spearheading a new program, Project Hub
- Gave a lightning talk to over 100 attendees at the Vancouver DevOpsDays conference about a project (Inertia)

nwPlus | Web Developer

2019.NWHACKS.IO

THE CLUB BEHIND THE NWHACKS, UBC LOCAL HACK DAY, CMD-F HACKATHONS

MAY 2018 - SEPT. 2018

- Built the nwHacks 2019 website, used by 1000+ users and the nwPlus team for processing hackathon applicants, with a team of developers using React and Firestore
- Accurately implemented designs for the design team by collaborating and iterating with design software like Figma

OPEN SOURCE

GITHUB.COM/BOBHEADXI

Inertia | Lead Developer

INERTIA.UBCLAUNCHPAD.COM

EFFORTLESS, SELF-HOSTED CONTINUOUS DEPLOYMENT FOR SMALL TEAMS AND PROJECTS

- Built a CLI and easily deployable daemon in Golang to automate service updates, builds, and deployments with Docker - used by 4 teams at UBC Launch Pad with 100+ stars, 7000+ downloads, and 20+ contributors
- Developed beginner-friendly cloud instance provisioning capabilities by integrating with providers like AWS EC2

Hercules | Contributor

GITHUB.COM/SRC-D/HERCULES

FAST, INSIGHTFUL, AND HIGHLY CUSTOMIZABLE GIT HISTORY ANALYSIS

- Enabled higher granularity by updating core parts of the directed acyclic graph of analysis jobs written in Golang
- Fixed a race condition in concurrent processing and built library improvements such as a pluggable logger

EDUCATION

University of British Columbia

VANCOUVER, BRITISH COLUMBIA

B.SC. IN MATHEMATICS

SEPT 2016 - EXP. MAY 2021