

ROBERT LIN

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WORK EXPERIENCE

Riot Games, Inc. | Software Engineer Intern

LOS ANGELES, CALIFORNIA

GOLANG, REACTJS, DEPLOYMENT, MONITORING, DATA VISUALIZATION, D3.JS

MAY 2019 - AUG. 2019

- Drove a cross-team effort to design an extension to allow alert definitions in the internal application specification
- Implemented and deployed the new specification, which saw use by 20+ services within the first month to deploy alerts, improving cross-region service visibility and enabling integration with new metrics vendors
- Built an alert exploration web app and data pipeline with React, D3, and a graph database to aid in root cause diagnosis of alerts across microservices based on similarities (such as network topography)

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

REMOTE

GOLANG, GRPC, DOCKER, POSTGRESQL

SEP. 2018 - APR. 2019

- Built a new node orchestration agent to manage isolated peer-to-peer distributed filesystems for a new product
- Revamped our search engine service for improved results, performance, a new gRPC API, and OCR integration
- Created a docker-compose framework and suite of scripts for deploying production-like environments anywhere for integration testing, increasing the number of codebases with integration coverage by 8x

Michael Smith Genome Sciences Centre | Bioinformatics Co-op

VANCOUVER, BRITISH COLUMBIA

NODEJS, POSTGRESQL, REACTJS, PYTHON, ELASTICSEARCH

JAN. 2018 - AUG. 2018

- Wrote a new Node.js server with Express that became the core of the team's 4 DNA analysis workflows and 3 websites, reducing average data load times by 80%+ and enabling new data views and reports
- Set up an Elasticsearch and APM deployment for visibility into the performance of the team's data analysis pipelines

EXTRACURRICULAR

UBC Launch Pad | Tech Lead

WWW.UBCLAUNCHPAD.COM

UBC'S STUDENT-RUN SOFTWARE ENGINEERING CLUB

JAN. 2018 - AUG. 2019

- Led teams of 5-10 students each as tech lead on web projects while providing support and mentorship to members
- Gave tech talks and spearheaded new programs like Project Hub to cultivate a software development culture at UBC
- Gave a lightning talk at the 2018 Vancouver DevOpsDays conference to over 100 attendees about a project, Inertia

nwPlus | Web Developer

2019.NWHACKS.IO

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

MAY 2018 - SEPT. 2018

- Implemented a React and Firestore-based overhaul of the nwHacks 2019 website and registration system with teammates, used by 1000+ users and the nwPlus team for processing hackathon applicants
- Collaborated and iterated on UI implementations with designers using 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

- Led project to build an easily deployable daemon that uses Docker to handle automated project updates, builds, and deployments - used by 4 teams at UBC Launch Pad with 100+ stars, 7000+ downloads, and 20+ contributors
- Developed integrations with providers like AWS EC2 for beginner-friendly cloud instance provisioning capabilities
- Created a suite of containerized development tooling and automated integration test pipeline for rapid iteration

Hercules | Contributor

GITHUB.COM/SRC-D/HERCULES

FAST, INSIGHTFUL, AND HIGHLY CUSTOMIZABLE GIT HISTORY ANALYSIS

- Revamped core parts of a directed acyclic graph of analysis tasks to enable higher granularity during analysis
- 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