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 an orchestration agent to manage nodes for 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