

Benson Yang

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Work Experience

Lifeline

Vancouver, Canada

DEVOPS ENGINEER

May 2021 - Mar. 2024

- Implemented **NGINX** rate limiting for an API, resulting in a 25% reduction in latency, 5% cost savings, and prevention of over 10 denial-of-service attacks
- Automated migration of 25+ **Bamboo** jobs to **Jenkins** pipelines, cutting developer time by over 50% through reusable shell scripts
- Introduced infrastructure as code with **Terraform** for our primary product, enabling cold disaster recovery within 2 hours
- Reduced **AWS** costs by 10% by optimizing resource utilization for EC2 and RDS
- Streamlined management of **Kubernetes** clusters and databases, saving hundreds of DevOps hours
- Established production alerts and on-call support using AWS CloudWatch and **Prometheus**, reducing service degradation response time to minutes

Sierra Wireless

Richmond, Canada

SOFTWARE TEST ENGINEER, CO-OP

Sep. 2020 - Apr. 2021

- Administered and maintained developer infrastructure such as **Jenkins** and **Gerrit** for the Legato project facilitating IoT software development
- Managed critical networking and host services like **Ignition**, **dnsmasq**, and **BIND** on-premises and in the cloud for seamless integration of new developers and hosts
- Automated and monitored containerized services on **Azure** to provide a consistent developer experience, reducing onboarding time from weeks to days
- Ensured work continuity by swiftly enabling secure access to code and build systems post-cyberattack through migration to a new VPC and setup of VPN and jump hosts

Projects

Algorithmic Trading

QUANTITATIVE DEVELOPER

Dec. 2023 - Present

- I currently have a basket of strategies in forward testing
- I am developing an event-driven backtesting and live trading engine written in **Python** using **TimescaleDB** as the database

MapleCTF 2022, 2023

INFRASTRUCTURE ENGINEER

Aug. 2022, Sep. 2023 - Oct. 2023

- This leveraged **Terraform**, **Kubernetes**, **Jenkins**, and **GitHub Actions**, while using **Google Cloud** as our cloud provider
- Maintained all of our self-hosted infrastructure, including GitHub Actions runners and Jenkins agents
- Automated all of the container build pipelines as well as maintained the hosts, improving developer productivity
- Wrote all of the infrastructure as code as well as maintained the pipeline that ensured consistency between code and production

Technical Skills

Languages and Software

Bash, C, C#, Golang, Java, Python, TypeScript, MySQL, MongoDB

Cloud

Azure, AWS, Docker, GCP, Kubernetes, Linux

Tools

Atlassian Suite (Bamboo, Confluence, Jira), Elasticsearch, Git, Jenkins, Prometheus, Terraform

Education

The University of British Columbia

Vancouver, British Columbia,
Canada

B.SC IN COMPUTER SCIENCE

Sep. 2019 - May 2023

Member of Maple Bacon, the #1 academic cybersecurity CTF team in Canada