

Vandy Liu

<https://vandyliu.github.io/>

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EDUCATION

University of British Columbia

Bachelor of Science in Computer Science

Sep. 2017 – Apr. 2022

GPA: 93%

EXPERIENCE

Splunk

May 2020 - Aug 2020

Machine Learning/Software Engineer Intern

Vancouver, BC

- Worked on Splunk's Machine Learning Experimentation Platform, a JupyterHub cluster on the cloud, using Kubernetes, Docker, GitLab and Python
- Decreased CI/CD MR pipeline time by 50% using Docker BuildKit
- Improved cluster security by adding network policies for some Kubernetes components
- Added integration tests into CI/CD pipeline
- Implemented cull cron job to periodically kill unused notebook servers to save resources

Microsoft

Jan. 2020 - Apr. 2020

Software Engineer Intern

Vancouver, BC

- Worked on an open source Visual Studio Code extension: Device Simulator Express, an extension that lets users run their python code on simulated micro-controllers and deploy them to their tangible device
- The extension has over 3,600 downloads and an average rating of 4.8/5 on the Visual Studio Code marketplace
- Using Python, Typescript, React and the VS Code Extension API implemented the microbit library and simulator, including key components such as the display class, sensor classes, and deploying to the device
- Available at aka.ms/GetDSX and github.com/microsoft/vscode-python-devicesimulator

Splunk

Sep. 2019 - Dec. 2019

Software Engineer Intern

Vancouver, BC

- Lowered Splunk Machine Learning API's technical debt by migrating metadata from S3 to a relational database reducing external S3 calls and dependencies
- Created a shared python library for the machine learning team to generalize and easily initialize CI/CD processes for existing and new repositories using JFrog CLI, Jenkins, Docker and Python

Amazon

May 2019 - Aug. 2019

Software Development Engineer Intern

Vancouver, BC

- Built a web app with AngularJS and Java used by the AWS Step Functions team to investigate and diagnose customer state machine problems
- Implemented new Step Functions APIs and fixed deprecated APIs in Java and tested them with junit and Mockito
- Automated the resolution of EC2 instance retirement tickets using Python, AWS SNS and AWS Lambda

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, TypeScript, HTML, CSS, C, C++, SQL, Go

Technologies: React, AWS, Microsoft Azure, Docker, Kubernetes, Jenkins, Firebase, MongoDB, Git

PROJECTS

WhatsApp Soccer Drop-in Auto Reply Bot

Python, Docker, AWS (EC2, Lambda, CloudEvents, SNS), Microsoft Azure Cognitive Services

- A Python bot running on Docker containers in an EC2 instance that auto replies to WhatsApp group chat messages to ensure I get one of the limited drop-in spots for weekly soccer games
- Uses Microsoft Azure's machine learning (ML) and natural language processing (NLP) services to determine whether or not to reply to messages because some may be irrelevant

NBA Box Score Quick

<https://vandyliu.github.io/boxscorequick>

React, Python, Flask, Heroku

- Architected and developed a full-stack web application that displays box-score stats for in-progress and finished NBA games on a user-selected day