Vandy Liu

https://vandyliu.com

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EDUCATION

University of British Columbia   Sep 2017 – Apr 2022

Bachelor of Science in Computer Science   GPA: 94%

WORK EXPERIENCE

Splunk   May - Aug 2020

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 average CI/CD pipeline time from 20 minutes to 10 minutes by integrating Docker BuildKit
- Improved cluster security by adding network policies for Kubernetes components
- Integrated end to end tests into CI/CD pipeline
- Implemented cull cron job to periodically kill unused notebook servers to save resources

Microsoft   Jan - 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 9,000 downloads and an average rating of 4.5/5 on the Visual Studio Code marketplace
- Using Python, Typescript, React and the VS Code Extension API implemented the microbit and Adafruit CLUE library and simulator, including key components such as the display class, sensor classes, and deploying to the device
- Available at aka.ms/getDSX

Amazon   May - 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, 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, Lamda, CloudWatch, 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.com/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

See more at https://vandyliu.com/projects