

# Vandy Liu

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

Email : vandyliu1999@gmail.com

LinkedIn : /in/vandy-liu

## EDUCATION

---

### University of British Columbia

*Bachelor of Science in Computer Science*

Sep. 2017 – Apr. 2022

GPA: 93%

**Relevant Coursework:** Data Structures and Algorithms, Object-oriented Programming, Computer Hardware and Operating Systems, Linear Algebra, Calculus I, II, III, Discrete Math, Probability

## EXPERIENCE

---

### Microsoft (Incoming)

*Software Engineer Intern, Garage Program*

Jan. 2020 - Apr. 2020

Vancouver, BC

### Splunk

*Backend Software Engineer Intern*

Sep. 2019 - Dec. 2019

Vancouver, BC

- Currently working on the Machine Learning API using Kubernetes, Go and Python in the Splunk Cloud Services
- 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

*Software Development Engineer Intern*

May 2019 - Aug. 2019

Vancouver, BC

- Fixing and improving the full-stack developer operations console used by the AWS Step Functions team by adding new features, fixing legacy features and updating the Angular UI for improved user experience
- Implemented new Step Functions APIs and fixed deprecated APIs in Java and tested them with junit and Mockito
- Implemented Python scripts to automate the resolution of EC2 host retirement tickets using AWS SNS and AWS Lambda
- At an internal hackathon, built an Alexa skill with AWS Lambda and Node.js that tracks attendance for after-school programs

## TECHNICAL SKILLS

---

Languages: Java, Python, Javascript, HTML, CSS, C, C++, Rust Go

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

## PROJECTS

---

### NBA Box Score Quick

*React, Python, Flask*

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

- 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

### Priority Task Manager

*HTML, JavaScript, Firebase*

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

- Developed a full-stack web application that manages tasks/to-do list items originally using binary heaps and now using Firebase
- Users can input tasks with details such as due date, difficulty and time it will take and with a button press, a single task to complete based on the priority is outputted so users don't feel overwhelmed by the number of tasks they have

### mySoil.space (Hackathon)

*React, Firebase, Microsoft Weather API, Arduino*

- A mobile web application to make community gardening easier to keep track of neighborhood plants and crops
- Using the Microsoft Weather API and our Arduino sensor that detects soil moisture, an algorithm determines if a plant needs to be watered along with other tasks and reminders

### Discord Reminder Bot

*Javascript, Node.js, Discord.js*

- Developed an online Discord (messaging application) bot using Node.js that can create and set reminders for a user by typing in the message box