

# Vandy Liu

3<sup>rd</sup> Year Computer Science Major

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## TECHNICAL SKILLS

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- **Programming Languages:** Java, Python, C++, C, JavaScript, HTML, CSS, Rust, Go
- **Development Tools & Frameworks:** Git, React, Node.js, Docker, Jenkins, AWS, JFrog
- **Databases:** Firebase, MongoDB

## WORK EXPERIENCE

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### SPLUNK

*Backend Developer Co-op, Sept 2019 – Dec 2019*

- Working on the Machine Learning API in 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 (SDE) Intern, May 2019 – Aug 2019*

- Improving the internal developer web application tool used by the AWS Step Functions team by adding new features, fixing legacy features and updating the UI for better user experience
- Implemented new APIs and fixed deprecated APIs and tested them with jUnit and Mockito
- Implemented scripts to automate the resolution of EC2 host retirement tickets using AWS SNS and AWS Lambda
- At an internal hackathon, in a team of four, built an Alexa skill with AWS Lambda and Node.js that records attendance for after-school programs

### UBC COMPUTER SCIENCE DEPARTMENT

*Lead Teaching Assistant, Sep 2018 – Apr 2019*

- Foster active participation in a laboratory environment and guide students to develop their knowledge of fundamental computer science concepts

## TECHNICAL PROJECTS

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### NBA BOX SCORE QUICK (VANDYLIU.GITHUB.IO/BOXSCOREQUICK)

*Flask, Python & React, August 2019 - present*

- Independently architecting and developing a full-stack web application that displays stats for in-progress and finished NBA games on a user-selected day
- For the backend, created RESTful APIs with Flask that return real-time NBA data modularized into practical classes, hosted on Heroku
- For the frontend, created and designed over twenty React components basing design off the NBA website

### PRIORITY TASK MANAGER (VANDYLIU.GITHUB.IO/TASKS.HTML)

*HTML, Firebase & JavaScript, Jan 2019 – Mar 2019*

- Developed a full-stack web application that manages tasks/to-do list items originally using binary heaps
- Created functions in JavaScript to update the Firebase database when adding tasks, removing tasks and change the order of tasks by changing the priority
- 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

## EDUCATION

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### UNIVERSITY OF BRITISH COLUMBIA, Vancouver, BC

*Bachelor of Science in Computer Science, Sep 2017 – Apr 2022 (expected)*

- GPA: 93%
  - Software Construction/OOP (98%), Basic Algorithms & Data Structures (95%), Intermediate Algorithms (89%)
- Trek Excellence Scholarship (Top 5% in Faculty of Science) – 2018