

Jack He

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LAST UPDATED: August 7, 2021

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EDUCATION

University of British Columbia

Expected Graduation: May 2023

Bachelor in Computer Science, Minor in Business

Vancouver, BC

- Cumulative GPA: 3.9/4.0, Entrance scholarship
- Academics: Software Construction (Object Oriented Design), Data Structures & Algorithms, Computer Systems
- Activities: Stanford Hackathon 2021 Winner, best use of FinTech (checkbook.io API)

TECHNICAL SKILLS

Languages: Python, Java, C/C++, Go, JavaScript, Typescript, Bash, SQL, R, HTML/CSS, Racket/Lisp/Scheme

Tools and Frameworks: React, Node, Express, Flask, MongoDB, Git, Docker, Kubernetes, AWS, Azure, Google Cloud

EXPERIENCE

Microsoft

May 2021 – Aug 2021

Software Engineer Intern

Redmond, WA

- Saved enterprise customers **\$19,865.01** each on-premise AKS deployment by enabling critical Edge services to run on cheap third-party hardware on baremetal
- Expanded customer pool by **25%** for an Azure hybrid cloud deployment platform by adding arm64 support
- Completed tasks **50%** ahead of schedule during midpoint performance review, attained stretch goal of adding Azure Portal integration for the new hybrid deployment platform
- Researched, designed, and implemented architectural changes to port core components designed for systems with **256 GB** of memory to run on devices with **4-8 GB** of memory, utilizing Docker, Kubernetes, Go, Python, Bash
- Presented architectural changes to the VP engineering and 80+ engineers in the Azure Edge and Devices org

Microsoft

May 2020 – Aug 2020

Product Manager and Development Intern (Explore)

Redmond, WA

- Designed and developed the user interface of an on-premise Kubernetes management system using Angular.js, used by **90+** enterprise customers through Windows Admin Center
- Enabled new user scenarios for Windows Admin Center by porting legacy Windows dependencies to Linux, making it possible to deploy critical services on Linux

UBC Computer Science Department

Sep 2020 – May 2021

Undergraduate Teaching Assistant - Data Structures and Algorithms

Vancouver, BC

- Received an average TA score of **4.6/5** from **300+** students from weekly coding labs
- Written feedback from several students: great communicator, attention to detail, able to explain complex algorithms in a way other TAs cannot

Game of Apps

Jun 2019 – Aug 2019

Software Development Intern

Vancouver, BC

- **Solved critical bug** affecting 200+ clients through implementing the MVC design pattern on legacy Swift codebase to identify and fix vulnerability
- Collaborated with designers and senior engineers from different teams to revamp the mobile client to better visualize data from new NoSQL database schema

PROJECTS

Codeblock | *Node.js, Express, Nginx, React, MongoDB, Docker, Python*

- Generated **\$28.02** of profit per day on average during the first week of launch using **Stripe** API
- **43 paid active users** (August 2021) Engineered a competitive coding platform, packaged as a Chrome extension

Chess with Friends | *React, Socket.io, Node.js, Express*

- Reached a peak of **2,546** active users, tracked using Google Analytics
- Developed an anonymous online chess platform using Socket.io and React

Recursion Function Visualizer | *Typescript, React, Python, Flask*

- **Top 25 (1.8%)** software engineering project in the **AlgoExpert SWE contest** Summer-Fall
- Developed a code-submission platform that visualizes recursive call structures