Jack He

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EDUCATION

University of British Columbia   Expected Graduation: May 2023
Bachelor in Computer Science, Minor in Business   *Vancouver, BC*
- Cumulative GPA: 4.1/4.33, Entrance scholarship
- Academics: Software Construction–JAVA OOP(A+), Data Structures & Algorithms(A+), Computer Systems(A)
- Certifications: Stanford Machine Learning by Andrew Ng (Coursera), REST API Design (Udemy)

EXPERIENCE

Software Engineer Intern - Kubernetes IoT Team   May 2021 – Present
Microsoft   *Redmond, WA*
- Working on bringing Azure infrastructure to IoT scenarios

Program Manager & Dev Intern - Explorer   May 2020 – Aug. 2020
Microsoft   *Redmond, WA*
- Developed the user interface for an on-premise Kubernetes management system using Angular and Node.js
- Designed the product specifications for a new IoT Edge device provisioning and management tool
- Ported Windows-specific infrastructure to Linux using a combination of .NET core, C#, and NuGet package manager

Undergraduate Teaching Assistant - Data Structures & Algorithms   Sep. 2020 – May 2021
The University of British Columbia   *Vancouver, BC*
- In charge of leading 50+ students during weekly coding labs
- Responsible for marking exam and assignment problems
- Tutored students on the fundamental design, analysis, and justification of algorithms

PROJECTS

Codeblock | *Node.js, Express, Nginx, React, MongoDB, Docker, Python*   Dec. 2020 – Present
- Generated $20 USD of profit per day on average during the first week of launch
- Designed and developed an end-to-end competitive coding platform, packaged as a Chrome extension
- Enabled monetization through Stripe API webhooks and analytics tracking with Google analytics
- Implemented Google OAuth 2.0 to streamline user authentication
- Leveraged Docker to containerize environments to run user-submitted code
- Deployed the user database on MongoDB
- Used Python to automate testing

Chess with Friends | *React, Socket.io, Node.js, Express*   Aug. 2020 – Sep. 2020
- Implemented an anonymous online chess platform using Socket.io and React
- Reached a peak of 2,546 active users, tracked using Google Analytics
- Deployed static assets using Firebase and used AWS to scale backend services
- Leveraged React simple-peer to enable a peer-to-peer video chat during games

Recursion Function Visualizer | *Typescript, React, Python, Flask*   Dec. 2020 – Jan. 2021
- Developed a code-submission platform that visualizes recursive call structures
- Implemented the frontend using Typescript and React, deployed on Firebase
- Developed the backend using Flask and used Docker to containerize user code submissions

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, JavaScript, Typescript, HTML/CSS
Frameworks: React, Express, Socket.io, Flask, JUnit
DevOps: Git, Docker, Kubernetes, CI/CD
Technologies: Linux, Nginx, MongoDB, Node.js