Jason (Ren Jie) Hong

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LANGUAGES & TOOLS

C, C++, Java, Ruby, Go, C#, MATLAB, Python, JavaScript, TypeScript

React, Redux, Rails, Node, Express, Flask, MongoDB, MySQL, Firebase, AWS, Jest, Docker

EXPERIENCE

Amazon Web Services, *SDE Intern*   09/2020 – present │ Vancouver, Canada
- Working on monitoring services for Amazon Connect Contact Lens

Canoo, *Software Tools and Automation*   09/2019 – 12/2019 │ Torrance, USA
- Increased productivity by creating software release monitoring dashboard with **React**, **TypeScript**, **Python**, and **Flask** for 10+ vehicle components
- Sped up software release generation by 2x with asyncio in **Python 3**
- Enhanced code quality by adding linter and unit tests for multiple software tools

Hack the North, *Frontend Developer*   02/2019 – 12/2019 │ Waterloo, Canada
- Created delightful web experiences with **React**, **Typescript**, and **Styled Components** for one of the world's largest hackathons, with more than 30k unique visitors and 3M requests per month
- Improved maintainability and customizability by creating a themeable **React** component library
- Encouraged and facilitated mentor-hacker interactions by building a Slack bot for mentorship requests

StackAdapt, *Software Engineering*   01/2019 – 04/2019 │ Toronto, Canada
- Implemented customization and productivity features on a web platform that manages 3000+ ad campaigns with **Ruby on Rails**, **React**, and **Redux**
- Increased ad bidding effectiveness for 1000+ bid requests per minute by adding logic in **Go** application to allow users to dynamically control the bidding frequency
- Improved user preset system for thousands of customers for flexibility and reliability

Palette (now Monogram), *Software Developer*   05/2018 – 08/2018 │ Kitchener, Canada
- Optimized performance and size for **Qt** application in **C++** and photo-editing software plugins
- Boosted responsiveness by developing an USB serial communication interface in **Node**
- Ensured 95% test coverage by writing comprehensive unit tests

PROJECTS

AI for Wireless Network, *Research Assistant for Prof. Sherman Shen* 🔗
- Created vehicular network simulator in **Python** to speed up collision probability data generation by 10x

VisionMotion, *THacks2 | Android, OpenCV* 🔗
- Developed Android application that measures the kinematic motion from video and generates graphs

EDUCATION

Computer Engineering, *University of Waterloo*   09/2016 – 04/2021
Relevant Courses: Distributed Computing, Cooperative & Adaptive Algorithms, Computer Networks