Jason Hong

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EXPERIENCE

Canoo — *Software Tools and Automation*

Sep 2019 – Dec 2019 • Torrance, California, USA

- Increased productivity by creating software release management tool with React, Typescript, Python, and Flask to monitor and control builds for 10+ vehicle components
- Sped up software release generation by 2x with asyncio in Python 3
- Enhanced code quality and coverage by adding linter, unit tests in Jenkins CI/CD pipelines for all software tools

Hack the North — *Frontend Developer*

Feb 2019 – Dec 2019 • Waterloo, Ontario, 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 for all Hack the North projects

StackAdapt — *Software Engineering*

Jan – Apr 2019 • Toronto, Ontario, Canada

- Implemented customization and productivity features on 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
- Designed user preset system based on user type for hundreds of active users

Palette — *Software Developer*

May – Aug 2018 • Kitchener, Ontario, Canada

- Improved performance for Qt desktop application and various content-creating software plugins by refactoring legacy code
- Boosted responsiveness and maintainability by developing USB serial communication interface in Node
- Ensured 95% test coverage by writing effective unit tests

LANGUAGES & TOOLS

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

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

EDUCATION

University of Waterloo

Candidate for B.A.Sc., Computer Engineering

Expected Graduation: Apr 2021

RESEARCH

AI for Wireless Network

Research Assistant for Professor Sherman Shen

Jan 2020 – Present

Analyzed network performance with custom network simulator in MATLAB

Ultrasound Research Scanner

Research Assistant for Professor Alfred Yu

Jan – Apr 2018

Designed and created Android interface to control ultrasound imaging platform via TCP/IP

PROJECTS

MelonBun — *API + Backend*

Deployed API written in Node and Typescript to AWS Lambda for merchandise marketplace

VisionMotion — *Android*

Led a team of four to develop application that measures kinematic motion of objects and generates graphs and tables