Jonathan **Xu**

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Skills

Languages Java, JavaScript, Python, HTML/CSS, C/C++ **Technologies** Git, Bash, Docker, Unix, AWS, Postman

Frameworks ReactJS, NodeJS, Heroku, PostgreSQL, GraphQL, Firebase, Redux, React Native

Experience_

Fractal Computers %

Boston, Massachusetts

SOFTWARE ENGINEER INTERN

Apr 2020 - Aug 2020

- Reduced Azure costs by 70% by automating resource management for virtual machines, disks, and users
- Revamped the PostgreSQL data warehousing schema and implemented GraphQL APIs, cutting query latency by 50%
- Migrated the Flask backend webserver to a Heroku CI pipeline, speeding up tests and deployment by 5x
- Built a client application with **React Native & Redux** to enable container app streaming directly to Android & iOS

Trofi % Toronto, Ontario

FOUNDER

Apr 2020 - Aug 2020

- Decentralizing food distribution through a group buy platform that connects local farmers directly to consumers
- Received \$40,000 in pre-seed funding, a \$1M valuation cap, and 3rd place out of 500+ applicants at Mozilla Builders
- Captured 5 digit revenue through the platform in 4 weeks, with 1K+ unique customers and 400+ unique items sold
- Conducted 20+ interviews with farmers, food distributors, and end users to optimize product market fit
- Built platform for distributors, leaders and buyers to manage listings and sales, using **React & Firebase**

Myriade Inc % Montreal, Ouebec

SOFTWARE ENGINEER INTERN

Oct 2019 - Jun 2020

- Created a **Dockerized React** web app that allows users to view Monero mining analytics and participate in raffles
- Increased signups by 35% by creating a landing page and stylizing the sign up flow using Bootstrap
- Implemented state management for React components using Context API, improving load times by 1.5x

Competitions and Projects _____ Competed at 40+ HACKATHONS %

Noisy &

PERSONAL PROJECT Nov 2020

- Built a Discord + Telegram bot that generates music on the fly using the OpenAI Musenet deep neural network
- Created the full stack that powers the live generation and playback of 15k songs every month to 125k+ users

Google Code-in - Public Lab %

FINALIST OUT OF 3000+ CONTESTANTS

Dec 2018

- Redesigned 5 application pages and a sequential image editor through open source contributions
- Improved login and authentication flows with **Ruby on Rails**, decreasing signup times by **65%**

Hack the North - Audite %

FIRST PLACE OUT OF 1200+ HACKERS

Sept 2018

- Built a **speech transcription** tool with visual location cues for people with hearing impairments
- Utilized Raspberry Pi, Arduino, ultrasound, and real-time speech to text to annotate speech over the source in AR

Education

University of Waterloo

4.0 GPA

BACHELOR OF SOFTWARE ENGINEERING Sept 2019 - Apr 2024 (expected)