Jonathan **Xu**

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Skills____

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

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

Experience _____

Hebbia Inc % **FULL STACK SOFTWARE ENGINEER** San Francisco, California

Jan 2021 - Mar 2021

- Designed and developed the web dashboard from scratch using ReactJS and Antd
- Increased search speeds by 50x by implementing semantic document search using dense vector clustering
- Architected the PostgreSQL database schema, powering search over 250K+ documents

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 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 mobile 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

Competitions and Projects _____ Competed at 40+ HACKATHONS %

Polygon %

PERSONAL PROJECT Apr 2021

- Coded a video player with 1K+ users that enables interaction with text and objects within the videos themselves
- Created a cloud pipeline that used FFMPEG, computer vision and speech to text to **process and serve 1.5TB of video**
- Collaborated with multiple YouTubers and received \$50,000 in funding from Backend Capital

Noisy %

PERSONAL PROJECT Jan 2021

- Developed a Discord + Telegram bot that generates music on the fly using the **OpenAl Musenet** deep neural network
- Created the automated backend powering the live generation and playback of 15k songs monthly to 200k+ users

Hack the North - Audite %

FIRST PLACE OUT OF 1200+ HACKERS

Sep 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