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, PyTorch, PostgreSQL, GraphQL, React Native

Experience _____

Stanford Sustain Lab %

ASSISTANT RESEARCHER

Stanford, California

Sept 2022 - Dec 2022

- · Leading research project, built dataset, and trained CNNs to detect farming activity from satellite imagery
- Collaborating with Ethiopian government to track displacement of people during the Tigray civil war
- Achieved human-level performance, 96% test accuracy on 3m resolution Planetscope imagery

Grynn

San Francisco, California

CO-FOUNDER Aug 2021 - Apr2022 Built a decentralized marketplace to buy and sell 50,000+ drug products between stores, raising \$400,000

• Conducted 80+ research interviews with store owners and partnered with 6 pharmacies serving 15,000 patients

FULL STACK SOFTWARE ENGINEER

San Francisco, California Jan 2021 - Mar 2021

• Independently built main web application using ReactJS, Antd, PostgreSQL. Powering search over **580K+ documents**

• Increased search speeds by 50x by implementing semantic document search using dense vector clustering

Whist &

Hebbia Inc %

Boston. Massachusetts

SOFTWARE ENGINEER INTERN

Apr 2020 - Aug 2020

- Reduced Azure costs \$70,000 by automating resource management for virtual machines, disks, and users
- Revamped the PostgreSQL schema and implemented GraphQL APIs, cutting query latency by 50%

Projects 40+ HACKATHONS %

IYK %

Feb 2021 - Aug 2021

- Embedded NFC tags to connect merchandise to Ethereum blockchain for 8000+ users. Programmed in C, React
- Raised \$1.2M from Backend Capital, Lattice Ventures and various angel investors

POLYGON %

Apr 2021

- Novel video interface using React and HTML Canvas, running on an automated computer vision and CUDA pipeline
- Collaborated with multiple YouTubers and received \$50,000 in funding from Backend Capital

FTH DENVER WINNER%

Feb 2020

• Developed a novel fee-less, interest-funded protocol for rentals on Ethereum and IPFS

Jan 2021

• Discord bot that generates music on the fly to over 200k+ users using the OpenAl Musenet deep neural network

HACK THE NORTH WINNER

Sep 2018

• Subtitles in AR - used ultrasonic triangulation and real time speech to text to caption people speech

Education____

University of Waterloo

4.0 GPA

BACHELOR OF COMPUTER SCIENCE

April 2025 (expected)

Dean's Honor List, Cohort Academic Representative