

Jonathan Zhang

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Skills

Applications: LaTeX, Word, Excel, PowerPoint, Google Suite tools

Technical: Python, R, C, Frontend Web Stack, Git Version Control, SQL

Experience

Harvest-Code (Startup) | www.harvest-code.com/en/

Machine Learning Intern, March 2021 to August 2021

- Preprocessed annotated images from a compiled heterogeneous dataset using Python
- Implemented and fine-tuned YOLOv5 and Mask R-CNN models to detect tomatoes in a greenhouse environment with 98% accuracy, a 3% increase on previous models
- Created processing pipeline for greenhouse surveillance feeds involving computation of data using Python with NumPy and OpenCV and storage in PostgreSQL

Harvest-Code (Startup) | www.harvest-code.com/en/

Marketing Consultant Intern, August 2020 to March 2021

- Created monthly competitive analysis reports of greenhouse technology companies
- Evaluated the company's business model and created product recommendations

Freelance Tutor, January 2018 to May 2020

- >300 hours tutoring ACT/SAT/PSAT, high school science and math in the school district

Google Code-In | www.codein.withgoogle.com/archive

Mentor, December 2019 to January 2020

- Reviewed and offered feedback on ~100 programming task submissions
- Provided near-instantaneous review of tasks where I was assigned

St. Jude, Memphis, TN | www.stjuderesearch.org/site/lab/yu/people

Computational Biology Intern, June to August 2019

- Developed novel pipeline using R to build intercellular networks of ligand-receptor pairs in scRNAseq data of mice mammary gland microenvironments (~28 million points)
- Conducted immunophenotyping of the microenvironment with t-SNE
- Curated gene databases and created network visualizations using R

Honors

SIAM MathWorks Math Modeling Challenge 2nd Place Paper | April 2020

- Modeled the growth and industrial implications of electric trucking with economic data using R and Excel (www.u.nu/f44-j)

Google Code-In Grand Prize Winner for Digital Impact Alliance | January 2019

- Out of 3,124 programmers, declared as 1 of 54 winners for 43 open-source task contributions over the 50-day competition period
- Worked with the Angular.JS framework to create views for a microfinance web app; Created wireframes using Figma for an electronic health records web app

Education

University of Florida | Class of 2024

White Station High School | Class of 2020

- GPA: 4.734 | Class Rank: 5 / 466