

Frank Li

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Education

The Ohio State University

B.S. in Computer Science and Engineering with Honors (GPA 4.0/4.0)

Graduating May 2025

Columbus, OH

Professional Experience

Fiserv

Software Engineering Intern

Jun 2023 – Aug 2023

Columbus, OH

- Optimized email comms by developing a secure RESTful API using Python and AWS services; used 2567 times in 2 months
- Protected company data integrity by detecting and reporting broken data streams by employing Python to query SQL databases and notify admins of unexpected downtimes, detecting 8 critical pauses in data pipelines over 2 months
- Programmatically remediated public S3 bucket access by creating an automated workflow using AWS CLI, Torq, and Terraform
- Advanced database efficiency by integrating caching and pagination in GraphQL queries to improve retrieval time by 11%

ExstoBio

Innovation Intern

Jan 2023 – May 2023

Remote

- Compiled a database of over 1000 cannabinoid-disease relations using GPT-4 and Beautiful Soup to analyze research papers
- Designed a UI for a prototype app to plan for minimalistic yet functional usage by clients in clinical trials using Figma
- Provided in-depth insights on internal analytics by using Python and pandas to create a dashboard tracking 23 different metrics

OSU Department of Computer Science

Teaching Assistant/Student Researcher

Oct 2022 – May 2023

Columbus, OH

- Graded class of 40 students and taught fundamental topics such as Java, JUnit, recursion, MVC, and data structures/algorithms
- Explored the substitution of XML with JSON in classroom projects and its influence on students' academic performance
- Implemented a JSON tokenizer/parser for the OSU Components Library; created a sample news aggregator project in Java

Leadership Experience

Big Data Analytics Association

Special Project Coordinator

Oct 2022 – Present

Columbus, OH

- Reconstructed the club website using HTML, CSS, React.js, Astro, and Tailwind, featuring an integrated calendar and navbar
- Coordinated social events, workshop meetings, visualization competitions and networking events for over 200 active students
- Spearheaded member initiatives such as an annual hackathon, sponsor directed internships, and professor led research programs

Dublin Tennis Outreach Program

Director of Operations

Jul 2019 – Aug 2022

Dublin, OH

- Established the first ever student led National Junior and Tennis Learning association; received the Chapter of the Year award
- Interviewed and lead a coaching team of over 110 high school students to run free tennis and tutoring clinics for over 1400 underprivileged K-5 students across 5 cities through 6 sessions every week; raised over \$10,000 in one year through speeches

Projects

Corporate Transportation Dashboard

Feb 2023 – Mar 2023

- Innovated a dashboard for transportation companies to view travel metrics and transition corporate fleets to electric vehicles
- Analyzed current fleets to provide EV recommendations based on reduced carbon emissions, operating cost, and capacity
- Collaborated on a four-person team to clean data, design a solution, and present results; placed first in OSU Honda Hack 2023

Windmill Failure Detection Algorithm

Sep 2022 – Oct 2022

- Developed a turbine failure detection algorithm, taking in inputs of rotor speed, hub temperature, power output, and other key factors to distinguish broken windmills within a dataset using Python and pandas; placed second in OSU DataI/O 2022
- Trained a neural network on over 500,000 windmill datapoints to identify faulty windmills with 87% accuracy using scikit-learn

Technical Skills

Languages: Java, C#, Python, C, C++, CSS, HTML, JavaScript, JSON, XML, SQL, GraphQL, x86 Assembly, MATLAB

Libraries/Frameworks: boto3, Tailwind, Astro, React.js, requests, pandas, .NET, argparse, pyodbc, scikit-learn, Express.js

Other: Git, AWS(Lambda, S3, API Gateway, EventBridge), Terraform, JUnit, Postman, Linux, Agile, MongoDB, Node.js, Kubernetes