

Isaac Ang

(408)-603-0628 | isaacangyu@gmail.com | 878 Hampswood Way, San Jose, CA 95120

EDUCATION

University of Illinois at Urbana-Champaign

Bachelor of Science in Computer Science & Math

Expected Graduation: December 2026

GPA: 3.86

2024 - 2025 (in progress): Algorithms, Computer Systems, Ordinary Differential Equations

2023 - 2024: Data Structures, Numerical Analysis II, Stats in CS, Abstract Linear Algebra, Discrete Math, Syntax

EXPERIENCE

IT Intern

Leadways School

May – June 2024

Cupertino, CA

- Prompt engineered a LLM to help teachers monitor reading progress; integrated with Google Sheets via OpenAPI
- Used Zapier to broadcast video conferences to social media platforms such as Facebook and Eventbrite
- Designed school website in Odoo, authored HTML/CSS snippets
- Implemented SEO optimizations for the school website

Data Visualization Assistant

CABSEL (Chemical and Biological Systems Engineering Laboratory) - Dr. Rudiyanto Gunawan

June 2022 – August 2023

University at Buffalo

- 3rd Author, *Cell and tissue-specific glycosylation pathways informed by single-cell transcriptomics*; funded by NIH
- Created UMAP data visualizations of single-cell expression data for 400 glycogenes in 15 tissues; applied standard denoising and normalization techniques
- Performed state-of-the-art statistical methods such as Principal Component Analysis and t-SNE
- Abstract accepted at Biomedical Engineering Conference 2023 (BMES)

Data Analytics Intern

SLiVDS (Spanish Linguistic Variation in Digital Spaces) - Dr. Adrián Riccelli

June 2021 – August 2023

University at Buffalo

- Built and trained a Machine Learning LSTM model on 1.5 million sentences in Spanish corpus and Twitter
- Devised Natural Language Processing algorithms to tag sentences for 4 linguistic variables, then implemented Mixed Effects Logistic Regression to measure correlation
- Wrote two papers; read around 60 papers on null complementizers
- Presented at *Experiential learning with Twitter and NLP to examine Spanish linguistic structure*

Course Assistant

Computer Science II

January 2024 – Present

University of Illinois at Urbana-Champaign

- Hold office hours for 5 hours a week, help students clarify concepts and debug code
- Run discussion section once a week, introduce assignment material and guide students through activities

Machine Learning Intern

Center for Artificial Intelligence in Medicine and Imaging (AIMI)

June – July 2022

Stanford University

- Trained a Machine Learning ResNet-18 model to classify and locate medical tubes in chest X-rays
- Established connections with industry experts and introduced peers in my network to AIMI

Founder and President

Computer Science Club

August 2021 – May 2022

Leland High School

- Helped organize hackathon during COVID, secured 24 corporate sponsors and more than \$6,000
- Led team of 7 officers and 10-15 regular members
- Spearheaded Machine Learning Track, introduced members to various models and implementations

TECHNICAL SKILLS

Languages: Python, C/C++, React, Rust, MatLab, SQL, Java, R, HTML/CSS/JS

Libraries: scikit-learn, Keras, TensorFlow, pandas, NumPy, Matplotlib, spaCy, PyTorch

Concepts: Support vector machines, Object-oriented programming, memory, Relational databases

Software: Docker, VS Code, Arduino, Google Colab, Jupyter Notebook, Git, GitHub, Odoo