Olivia Liu

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EDUCATION

Purdue University   May 2027
*Bachelor of Science, **Computer Science Honors**, Minor in **Finance** & **Mathematics***   *GPA: 3.75*
- *Relevant Courses:* Data Structures & Algorithms, Object-Oriented Programming, Analysis of Algorithms, Artificial Intelligence, Computer Architecture, Systems Programming, Information Systems, Discrete Math, Probability, Real Analysis, Linear Algebra, Statistics
- *Leadership & Organizations:* Computer Science Women's Network (Marketing Specialist), ML@Purdue, The Data Mine - Corporate Partners, Purdue Hackers, Society of Asian Scientists and Engineers

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, HTML, CSS, R, Dart, SQL, Swift
Frameworks: React, React Native, PyTorch, NumPy, Pandas, Flutter, Node.js, Express, Flask, Spring Boot, Django
Technologies: Git, AWS, Linux, Docker, Firebase, Supabase, REST API, Azure

EXPERIENCE

Lyft   May - August 2025
Backend Software Engineering Intern   *San Francisco, CA*
- Incoming Summer 2025, Driver Onboarding Team

AIM Lab   May 2024 – Present
Machine Learning Researcher   *West Lafayette, IN*
- Conducted research on the usage of machine learning algorithms for ASL-to-text translation with AR glasses
- Produced Python scripts to improve data collection efficiency by over 200% and facilitate large-scale machine learning model training and testing
- Integrated computer vision techniques to accurately capture and interpret ASL gestures in real time

CTB, Inc.   August – December 2024
Data Science Researcher   *West Lafayette, IN*
- Designed and implemented data models to continuously analyze data and detect anomalies
- Developed and deployed RESTful APIs using Flask and Django to enable real-time data processing and seamless integration with front-end application
- Utilized Azure, SQL, and Python to drive improvements in data accuracy and model improvements

PROJECTS

RandezVous | *Flutter, Dart, TypeScript, Node.js, Express.js, Supabase*
- Developed mobile app that facilitates spontaneous meetups by notifying friend groups at random times to gather at a designated location. Implemented real-time location tracking and notifications using Google Maps API and Firebase Cloud Messaging. Reduced deployment time by 40% by implementing CI/CD pipelines using GitHub Actions

LSTM Text Generation | *Python*
- Developed an LSTM neural network to generate text using datasets from TXT files. Trained the network to produce text sequences using TensorFlow/Keras and sequence modeling for natural language processing

Student Productivity/Health App | *React Native, JavaScript, Node.js, Firebase*
- Created a student productivity and health mobile app to encourage a balanced lifestyle. Implemented Pomodoro timer and sleep recommendation features using React Native for the interface and Firebase for backend support

AI Lipstick Recommender | *Python, Flask, JavaScript, HTML, CSS*
- Developed a website that generates lip product recommendations for users based on their natural lip shade through image processing and implementing Open AI using Flask

AWARDS/HONORS

Purdue Computer Science Continuing Student Award Boeing Student Organization Winner, 2024
USA Computing Olympiad (USACO) Silver Division, 2023
NCWIT Aspirations in Computing Greater Houston Affiliate Award Winner, 2022/2023