

Andrew Yu

2521andy@gmail.com | 628-777-9630
linkedin.com/in/andrew-y-yu andrewyu.dev

EDUCATION

University of Michigan, Ann Arbor, MI

2024 - 2027

BSE, Computer Science GPA: 4.0 - Dean's List All Semesters

- Data Structures and Algorithms, Computer Organization, Discrete Mathematics

Dougherty Valley High School, San Ramon, CA

2020 - 2024

GPA: 4.42

- Multivariable Calculus (Dual Enrollment @ Las Positas College)
- Linear Algebra (Dual Enrollment @ Diablo Valley College)

PROFESSIONAL EXPERIENCE

M-Bus

Ann Arbor, MI

Software Engineer

2025 - Present

- Redesigned a front-end, leveraging the Flutter framework and the Google Maps SDK, allowing for a consistent codebase and user experience while allowing both iOS and Android devices to access M-Bus
- Engineered a backend API leveraging Node.js, Express.js, MongoDB, and deployed it on the Heroku platform to process over 300,000 vehicle and bus stop information requests per day
- Accrued 35,000+ downloads on the App Store and Google Play Store on a campus with 44,700 students

Polyverse (501c3)

San Ramon, CA

Executive Director

2023 - 2024

- Founded and established nonprofit, led organizational logistics and managed a team of 7
- Drove website development and design of online courses, planned community workshops to grow local impact of nonprofit

Darim Vision

Remote

Software Engineer Intern

2023 - 2024

- Collaborated remotely with team members across the globe on a system purchased for public use by Gwacheon City Library
- Implemented video synchronization between virtual reality headsets using network protocols in Unity
- Presented work at 14th Future Education Conference in Seoul (10 countries, 182 edu-related orgs, 30,000 visitors)

PROJECTS

Team Lead/Tech Lead, 2024

License to Steal - Los Altos Hacks VIII Winner, Sunnyvale, CA

- Developed a real-time vehicle detection app using Python, OpenCV, and YOLOv8 to recognize stolen license plates
- Collaborated in a team of 3 during a 24-hour hackathon to log locations and generate heat maps to aid law enforcement in tracking car theft patterns

Team Lead/Tech Lead, 2021

ConnectASL - Equal Opportunity Hacks 2021 Winner, Remote

- Built a real time sign language translator with TensorFlowJS accessible to anyone through a browser
- Collaborated in a team of 3 during a 12-hour hackathon to convert sign language into both text and speech to enable better communication for individuals with hearing impairments

SKILLS

Java, JavaScript, C#, C++, Python, Git, Node.js, React

AWARDS

National Merit Finalist

State Finalist: Samsung Solve for Tomorrow

Equal Opportunity StarHacks Hackathon 2020 Intermediate 1st Place + 2021 Advanced 2nd Place

hello:world CalHacks Connectivity Track

StellarHacks 2024 2nd Place Winner

Los Altos Hacks VIII Best Use of MongoDB Award