CINDY YANG

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EDUCATION

University of Michigan   **Ann Arbor, MI**
BSE Computer Engineering + Robotics   *May 2026*
Cumulative & Major GPA: 4.00/4.00 • Honor Roll + Dean's List
Relevant Coursework: Operating Systems, Computer Networks, Embedded Systems, Web Systems, Deep Learning, Logic Design, Differential Equations, Discrete Math

Thomas Jefferson High School for Science and Technology   **Alexandria, VA**
Advanced Studies Diploma   *June 2023*
GPA: 4.59/4.00 • SAT: 1590
Relevant Coursework: Machine Learning, Computer Vision, Linear Algebra, Multivariable & Vector Calculus, Artificial Intelligence, Web/Mobile Application Development, Data Structures & Algorithms

WORK EXPERIENCE

Google   **San Bruno, CA**
Software Engineering Intern (YouTube Team)   *May 2025 - August 2025*
- Incoming intern on the YouTube team projected to work on full stack projects involving the recommendation algorithms surrounding creator community engagement

Google   **Mountain View, CA**
STEP Intern (Geo Team)   *May 2024 - August 2024*
- Integrated Project IDX into the Google Maps Platform experience using TypeScript and Angular by adding a sandbox button to the two pages with highest traffic from new users, increasing mobile developer activation rate by 2.5%
- Prevented API key abuse and protected customer security by restricting the creation of new API keys
- Wrote robust design docs and gave lightning talks detailing the implementation plan and impact of each project
- Developed analytics SQL scripts to track client-side events and determine the efficacy of launch experiments

Vytal AI   **Remote**
Founding Full-Stack Developer   *June 2023 - December 2024*
- Developed a quantitative brain health assessment app using Next.js, MongoDB, and Tailwind, bringing in over 1.3M in investments and a 12.5M valuation
- Built a mobile app using React Native to intelligently recommend eye tracking exercises using user biometrics and logs
- Created company website using modern design principles, clear CTA, and eye-catching animations

PROJECT EXPERIENCE

Jane Street   **New York City, NY**
INSIGHT Program - Software Engineering Track   *January 2025*
- Learn about OCaml and the fundamentals of building electronic trading systems
- Write the backend and UI for a computer game and a program that trades on a simulated stock exchange

M-Fly - Aerospace Engineering Project Team   **Ann Arbor, MI**
Flight Systems Lead   *August 2023 - Present*
- Direct a subteam to build and integrate software for an aircraft capable of autonomous flight and navigation to compete in the Student Unmanned Aerial Systems (SUAS) competition
- Develop a control interface that displays satellite view, live plane camera feed, and syncs with Mission Planner using the Jetson Nano and Pixhawk flight controller
- Engineer a dynamic obstacle avoidance algorithm using remote sensing, ROS, Ardupilot, and PyMavLink
- Create an asynchronous pipeline to handle computer vision processing and transmission between the plane and ground station

SKILLS

Languages: Java, Python, JavaScript, TypeScript, C++, C, HTML, CSS, Arduino, R, Verilog, SQL, OCaml
Tools/Frameworks: React.js, Next.js, React Native, Angular, Git, Firebase, MongoDB, Flask, ROS, Matlab, Linux