CINDY YANG

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EDUCATION

University of Michigan — **Ann Arbor, MI**
BSE Robotics, minors in Computer Science + Electrical Engineering — *May 2026*
Cumulative & Major GPA: 4.00/4.00 • Honor Roll + Dean's List
Relevant Coursework: Operating Systems, Embedded Systems, Circuits, SLAM & Navigation, Computer Organization, Logic Design, Human-Robot Systems, Differential Equations, Robotics Mechanisms

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 — **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 - Present*
- 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

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 Cube Orange flight controller
- Engineer a dynamic obstacle avoidance algorithm using remote sensing, ROS, Ardupilot, and DroneKit SITL

Large Hadron Collider (ATLAS Experiment at CERN) — **Ann Arbor, MI**
Research Assistant under Prof. Tom Schwarz — *January 2024 - Present*
- Search for evidence of dark matter produced in high-energy proton collisions imitating conditions directly after the Big Bang
- Test and operate firmware for the development of radiation-tolerant electronics to be installed on particle detectors

Accel - Emotionally Intelligent AI Tutor — **Berkeley, CA**
Won Intel track at Berkeley AI Hackathon — *June 2024*
- Adapt tutoring approach by analyzing users' emotions through speech using Hume EVI
- Implemented retrieval augmented generation (RAG) with Llama 70B to create a scalable solution that can cover any subject
- Project published on Intel Developer Zone; invited to attend Intel Innovation 2024

SKILLS

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