CINDY YANG

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EDUCATION

University of Michigan **Ann Arbor, MI**
Bachelor of Science in Engineering - Computer Science & Robotics *May 2026*
GPA: 4.00/4.00
Relevant Coursework: Software Engineering, Computer Organization, Operating Systems, Differential Equations, Discrete Math, Probability & Statistics, Dynamics & Vibrations, Human-Robot Systems

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

WORK EXPERIENCE

Vytal AI **Remote**
Software Developer *June 2023 - Present*
- Developed a quantitative brain health assessment app in the span of 8 weeks using Next.js, MongoDB, Flask, and AWS, bringing in over 1.3M in investments and a 12.5M valuation
- Built a corresponding mobile app using React Native to intelligently recommend eye tracking exercises with user biometrics and logs

Yext **Arlington, VA**
Software Engineering Intern *June 2022 - August 2022*
- Performed Quality Assurance checks for a React component library
- Adapted the branding of Yext Search; deprecated npm packages and updated repositories
- Devised Yext Studio, a vital product for the company's Spring 2023 Release

RESEARCH/PROJECT EXPERIENCE

University of Michigan Physics Department **Ann Arbor, MI**
Undergraduate Researcher *January 2024 - Present*
- Research conducted under Professor Tom Schwarz for the ATLAS Experiment at the Large Hadron Collider
- Test and operate firmware for the development of radiation-tolerant electronics to be installed on particle detectors

M-Fly - Aerospace Engineering Project Team **Ann Arbor, MI**
Flight Systems Subteam *August 2023 - Present*
- Built an aircraft capable of autonomous flight and navigation to compete in the Student Unmanned Aerial Systems competition
- Developed a control interface that displays satellite view, live plane camera feed, and syncs with QGroundControl
- Engineered a dynamic obstacle avoidance algorithm using remote sensing

George Mason University - Aspiring Scientists Summer Internship Program **Fairfax, VA**
Machine Learning Researcher under Dr. Mihai Boicu *June 2022 - August 2022*
- Developed an ontology model to automate the generation of academic course curricula; presented abstract at ASSIP's annual symposium

SKILLS

Languages: Java, Python, JavaScript, TypeScript, C++, HTML, CSS, Arduino, R
Tools/Frameworks: React.js, Next.js, Git, Node, Firebase, MongoDB, Flask, Android Studio, Jupyter Notebook, RStudio