

Giang Anh Vu

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Education

University of Michigan Ann Arbor, MI
Bachelor of Science in Engineering, Computer Engineering | GPA: 4.0/4.0 May 2027
Relevant Coursework: Programming and Data Structures; Electrical Circuits; Solid Mechanics
Awards: Martin & Ellen Chavez Scholarship Winner; Dean's List

Work Experience

U-M Vertical Flight Ann Arbor, MI
Founder & Electrical Lead Jan 2026 – Present
• Found multidisciplinary eVTOL design team; compete in Vertical Flight Society design-build-fly competitions (search-and-rescue, surveillance, UAM); secure 20k+ in funding and sponsorships.
• Lead electrical systems design: power distribution, flight controllers, sensor integration (LiDAR, thermal) for autonomous VTOL quadcopters and hybrid-wing drones.

U-M Magnetometer Laboratory Ann Arbor, MI
Research Assistant Aug 2025 – Present
• Develop Random Forest ML models achieving 80% recall for geomagnetic storm prediction; analyze 10+ years of magnetometer data; co-author publication enabling novel early warning systems.
• Calibrate and maintain Helmholtz Coil apparatus for RM3100 sensor testing, validating hardware reliability for spaceflight environments.

Mathnasium Clarksville, MD
Math Instructor May 2024 – June 2025
• Instructed students in AP Calculus and Physics preparation, through personalized learning plans leading to 90% of students achieving a score of 4 or higher.
• Mentored high school students in SAT Math, resulting in an average score increase of 100+ points and improved mastery of algebraic concepts.

Projects

GoFundMI.org - Non-Profit | *Python, React, Web-Development* Feb 2026 – Present
• Collaborate with Curtis Ling (MaxLinear founder & CTO) to build non-profit platform connecting student researchers to funding and enabling donors direct access to research.

Summa-Fi | *Python, React, PostgreSQL* Sep 2025 – Present
• Engineer a secure, self-hosted financial platform using Python and React to automate transaction classification, reducing manual accounting workflows by 70%.
• Integrate Plaid API for real-time data; PostgreSQL for storage; React for dynamic visualization.

Leadership & Activities

Phi Theta Kappa International College Honor Society Rockville, MD
Montgomery College Vice President Aug 2024 – June 2025
• Orchestrated 5+ large-scale events for 400-member honor society, increasing member engagement and representing chapter at regional conferences.

Montgomery College Student Government Association Rockville, MD
Treasurer Dec 2023 – June 2024
• Administered \$40,000 annual budget for 40+ student organizations; exercised fiscal oversight to approve \$28,000+ in resource allocations through weekly proposal hearings.

Skills & Languages

Skills: Python (Pandas, Scikit-learn), C++, MATLAB, HTML/CSS, CAD (SolidWorks, Siemens NX)
Languages: English, Vietnamese (Fluent); Spanish (Conversational)