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
  Awards: Martin & Ellen Chavez Scholarship Winner; Dean's List

Montgomery College — Rockville, MD
Associate of Science, General Engineering | GPA: 3.7/4.0 — May 2025
  Relevant Coursework: Statics; Mechanics of Materials

Work Experience

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, and co-author a publication enabling novel early warning systems.
- Calibrate and maintain Helmholtz Coil apparatus for accurate 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

Lucentia | *Python, React, PostgreSQL* — Sep 2025 – Present
- Engineered a secure, self-hosted financial platform using Python and React to automate transaction classification, reducing manual accounting workflows by 70%.
- Integrated Plaid API to fetch real-time data, utilizing PostgresSQL for efficient transaction storage and React for dynamic data visualization.

U-M Electric Boat | *SolidWorks, Siemens NX* — Sep 2025 – Present
- Modeled and fabricated a high-efficiency boat hull using Siemens NX, optimizing hydrodynamics to target a world-record speed of 125+ mph.

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 a 400-member honor society, increasing member engagement and representing the chapter at regional conferences.

Montgomery College Student Government Association — Rockville, MD
Treasurer — Dec 2023 – June 2024
- Administered a $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 (Fluent), Vietnamese (Fluent), Spanish (Conversational)