

Giang Anh Vu

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Education

University of Michigan

Bachelor of Science, Computer Engineering | GPA: 4.0/4.0

Ann Arbor, MI

May 2028

Montgomery College

Associate of Science, General Engineering | GPA: 3.7/4.0

Rockville, MD

May 2025

Relevant Coursework: Statics; Mechanics of Materials

Experience

University of Michigan Magnetometer Laboratory

Ann Arbor, MI

Research Assistant

Aug 2025 – Present

- Develop ML models achieving >90% recall for geomagnetic storm prediction using Random Forest classifiers on 10+ years of magnetometer data, enabling early warning systems for satellite infrastructure.
- Author research manuscript documenting ML methodology and results for peer-reviewed publication.
- Analyze 10+ years of magnetometer data to correlate 50+ solar events with geomagnetic fluctuations; research material properties for optimal sensor selection on NASA missions.
- Calibrate and maintain Helmholtz Coil apparatus for RM3100 sensor testing, ensuring $\pm 0.1\%$ accuracy.

Mathnasium

Clarksville, MD

Math Instructor

May 2024 – June 2025

- Instructed K-12 students in Calculus I–III for AP exam preparation over 10+ hours/week; developed personalized learning plans and increasing STEM interest.

Leadership & Activities

Phi Theta Kappa College Honor Society

Rockville, MD

Montgomery College Vice President

Aug 2024 – June 2025

- Coordinated 5+ events engaging 400+ honor society members; represented chapter at regional meetings.

Montgomery College Student Government Association

Rockville, MD

Treasurer

Dec 2023 – June 2024

- Managed \$40,000 budget, overseeing financial allocations for 40+ student organizations; approved \$28,000+ in resources through bi-weekly meetings.

Projects

Lucentia | *TypeScript, Next.js, React, PostgreSQL*

Sep 2025 – Present

- Developed full-stack financial intelligence platform using Next.js, React, and PostgreSQL that classifies spending, detects anomalies, and reduces manual accounting time by 90%.

UM Electric Boat | *SolidWorks, Siemens NX*

Sep 2025 – Present

- Design and manufacture electric boat hull targeting 125+ mph (world record attempt), optimizing for efficiency.

AWS Powered Autonomous Robot Car | *Python, AWS, Creo Parametric*

Feb 2023 – June 2023

- Programmed reward functions in Python for autonomous navigation achieving 85%+ success rate across 10+ test scenarios; designed collision-resistant outer shell using Creo Parametric.

Skills & Languages

Technical Skills: Python, JavaScript, C++, MATLAB, Machine Learning, PostgreSQL, CAD (SolidWorks, Creo Parametric, Siemens NX)

Languages: English (Fluent), Vietnamese (Fluent), Spanish (Conversational)