



AUSTYN NGUYEN

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EDUCATION

University of Michigan – Ann Arbor

Ann Arbor, MI

B.S.E. in Computer Science; GPA: 3.41/4.00

Apr 2027

- Coursework: Data Structures/Algorithms, Computer Organization, Digital Logic Design, Probability & Statistics
- Study Abroad: Yonsei University (YISS), Seoul, South Korea

Howard Community College

Columbia, MD

A.A. in Computer Science and General Studies (STEM); GPA: 4.00/4.00

May 2024

- Honors: Phi Theta Kappa, Frederick K. Schoenbrodt Scholar, Summa Cum Laude

SKILLS & TECHNICAL TOOLS

Languages: Python, Java, C, C++, Assembly, Verilog, SQL, MATLAB, JavaScript, HTML/CSS

Technologies: Git, Power BI, PowerApps, Power Automate, Azure, Fabric, DevOps, Pandas, Numpy, Matplotlib, Jupyter, Linux, MacOS, Windows

EXPERIENCE

The Chemours Company

Wilmington, DE

Data Analyst Intern

May 2025 – Present

- Developed and deployed interactive dashboards using Power BI and SQL to visualize S&P global trade data, enabling real-time insights and data-driven decision-making.
- Partnered with stakeholders to align dashboards with business goals, applying data modeling and DAX to extract actionable insights and support key performance tracking.
- Led Power BI–GitHub integration and training program, standardizing best practices and empowering cross-functional teams through technical coaching and onboarding.

Michigan Medicine: Watson Lab

Ann Arbor, MI

Research Software Engineer

Jan 2025 – May 2025

- Created shell scripts to automate the processing of 2TB+ electrophysiological data, improving efficiency for postdoctoral and PhD researchers in spike sorting workflows.
- Resolved MATLAB script debugs leveraging the open-source Spike2 library to organize 60-channel, 48-hour electrophysiological recordings into structured directories by tetrode group, streamlining analysis efforts.

National Institute of Standards and Technology (NIST)

Gaithersburg, MD

Software Engineering Intern

May 2024 – Aug 2024

- Built a result submission framework using GitHub Actions, automating processing and submission of over 8 benchmark results and reducing manual workload.
- Implemented a Git LFS instance to manage a dataset of over 512 GB, ensuring efficient handling and storage of large-scale research data files for more than 200 phase field simulations.
- Automated the validation process for phase field benchmark uploads, achieving a 100% accuracy rate, accelerating the overall benchmarking workflow.

PROJECTS

FAIR Metadata Standard for Phase Field Data | Python, Jupyter, Functional Programming

Summer 2024

- Adopted the RO-Crate standard to package phase field simulations with metadata (environments, numerical schemes, problem specifications, etc.), while addressing gaps in tabular data and semantics to enhance FAIR compliance.

The WiLi Watch – MHacks | Python, Arduino Nano, Orange-Pi, Cartesia, Whisper, Llama, Groq

Fall 2024

- Built an award-winning smart home wristband for accessible automation, enabling voice- and button-controlled management of lights, locks, cameras, and updates.
- Integrated intelligent tools with a cloud-based LLM on a Free-WiLi micro-controller for predictive automation and private model generation via Intel's IDC.

ADDITIONAL

Activities: Michigan Pops Orchestra, Campus Symphony Orchestra, Zeta Pi Technical Fraternity, UM Autonomous Robotics Vehicles, First Generation Students

Interests: Data-Driven Decision Making, AI & Human-Centered Design, Viola Performance & Chamber Music