AUSTYN NGUYEN

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EDUCATION

University of Michigan – Ann Arbor — Ann Arbor, MI
*B.S.E. in Computer Science, B.S. in Economics; Minor in Entrepreneurship; **GPA: 3.41/4.00*** — *Apr 2027*
- Coursework: Data Structures/Algorithms, Computer Organization, Digital Logic Design, Probability & Statistics
- Study Abroad: Yonsei University, 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, SharePoint, Excel, Pandas, Numpy, Matplotlib, Jupyter, Linux, MacOS, Windows

EXPERIENCE

The Chemours Company — Wilmington, DE
Data Analyst Intern — *May 2025 – Present*
- Designed and deployed interactive dashboards in Power BI and SQL to surface trends in S&P Global trade data, directly supporting strategic decision-making across supply chain and commercial teams.
- Collaborated cross-functionally with business leaders to align KPIs with trade strategy, applying data modeling and DAX to drive actionable insights that informed key planning processes.
- Spearheaded integration of GitHub with Power BI workflows; led training sessions that institutionalized analytics best practices across business and IT units.

Michigan Medicine: Watson Lab — Ann Arbor, MI
Research Software Engineer — *Jan 2025 – May 2025*
- Translated complex neural signal processing tasks into streamlined, reusable shell and MATLAB scripts—empowering PhD researchers to handle large-scale data without deep coding knowledge.
- Leveraged the open-source Spike2 API to organize 60-channel, 48-hour recordings into structured formats for downstream analysis and visualization, bridging neuroscience workflows with scalable automation.
- Improved team efficiency by abstracting technical steps into digestible, reproducible processes—ensuring insights from 2TB+ of electrophysiological data could be accessed and interpreted across disciplines.

National Institute of Standards and Technology (NIST) — Gaithersburg, MD
Software Engineering Intern — *May 2024 – Aug 2024*
- Streamlined and automated the benchmark evaluation workflow for materials science simulations, cutting manual effort by 80% and enabling researchers to scale model submissions with minimal oversight.
- Built a GitHub Actions–based processing framework to validate and submit simulation results across 8+ open benchmarks, enhancing transparency, reproducibility, and research throughput.
- Contributed to improving data governance and technical documentation practices, supporting inter-institutional collaboration and long-term data standardization.

PROJECTS

FAIR Metadata for Scientific Reproducibility | *Python, Jupyter, Functional Programming* — *Summer 2024*
- Improved data reproducibility and cross-institutional collaboration in materials science by standardizing metadata using the RO-Crate protocol and proposing extensions to bridge gaps in benchmark semantics and tabular simulation data.

The WiLi Watch (Winner @ MHacks) | *Python, LLM APIs, Arduino, Whisper, OrangePi* — *Fall 2024*
- Led development of a wearable smart home controller for users with limited mobility, integrating speech and tactile interfaces with real-time AI processing via cloud-based LLMs.

ADDITIONAL

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