# DAVID NGUYEN

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## Education

**University of Michigan**                                           **Expected Graduation: May 2027**
*B.S.E in Computer Science*                                                              *Ann Arbor, MI*
**GPA:** 3.7/4.0 | **Awards:** Engineering Dean's List, University Honors
**Relevant Coursework:** Data Structures and Algorithms, Computer Organization, Logic Design, Discrete Math, Probability, Linear Algebra, Multivariable Calculus

## Experience

**VOID Tech**                                                       **January 2025 - April 2025**
*Software Developer*                                                                      *Ann Arbor, MI*
- Collaborated with a team of 3 engineers to design a backend infrastructure for a subscription-based streaming platform, enabling users to stream God Said Give 'Em Drum Machines using **TypeScript** and **AWS Amplify** for scalability
- Implemented authentication and authorization account management using **AWS Cognito** for secure sign-ups/logins and tracked user subscriptions status via **AWS DynamoDB** with **PostgreSQL** for gated media access
- Integrated a video streaming infrastructure using **MUX** with signed URLs and thumbnail tokens to address authorized access concerns for paid users

**N2K**                                                            **November 2023 – July 2024**
*IT Intern*                                                                                  *Fulton, MD*
- Developed an internal website using **HubSpot** and **Adobe Photoshop** to advocate **20%** of the company to acquire the ISC2 Certified in Cybersecurity certification for higher organizational cybersecurity credibility in the IT industry
- Organized client data using **Python** and **Pandas** to export client data into readable CSV files and audited company's self-diagnostic products for simpler data analytics to acquire over **$200,000** from partnered companies and clients
- Contributed to the development of cloud computing and cybersecurity online courses to assist their clients for IT examinations and earn certifications

**Springbrook**                                                   **June 2023 – September 2023**
*IT Intern*                                                                              *Silver Spring, MD*
- Refurbished over **600** previously distributed and broken student laptops to prepare **95%** of laptops to upcoming class and transferred students
- Configured the DNS and routed Ethernet cables into hubs for multiple HP printers to enable optimal routing and usage for all staff faculties and students of over **2000** users
- Revised over **50** different Boxlight Promethean boards and desktop computers with user-friendly interface for students and staff members

## Projects

**Trading Bot** | *C++, Python, PyTorch, FastAPI, Pandas, NumPy, React.js, TypeScript, Tailwind CSS, PostgreSQL*
- Architected a NASDAQ trading bot with responsive UI featuring charts with adjustable stop-loss values and statistics with execution metrics such as net profit and win rate percentage, backed by **PostgreSQL** for historical trade data
- Integrated a low-latency **C++** backend for trade execution with **AI-driven** reasoning and NASDAQ market forecasting using the **OpenAI API** and **Hugging Face**, enabling detailed strategy analysis and planning

**Ineedio** | *React.js, TypeScript, Tailwind CSS, Supabase*
- Built a responsive internship tracker fullstack application with leaderboard and dashboard analytics, helping users track applications in real time with 10 developers to assist users' ability to organize their applications in a competitive setting
- Designed a dashboard page using **Supabase** for users to easily implement their own internship information efficiently and view the amount of active applications, total applications in a current time span, acceptance rate, and rejection rate

**Spotify Analysis** | *Python, Pandas, NumPy, Matplotlib*
- Developed a recommendation engine using **Spotipy** to analyze top artists, genres, and listening duration, to suggest songs with similar listening patterns with other users
- Visualized user's Spotify statistics using **Matplotlib** to assist the user discover trends and preferences

## Skills

**Languages:** C/C++, Python, TypeScript, HTML/CSS/JavaScript, MATLAB, Verilog
**Technologies:** React.js, Next.js, Tailwind CSS, PostgreSQL, PyTorch, FastAPI, Pandas, NumPy, Git, Linux, AWS, Azure
**Certifications:** AWS Cloud Practitioner, Microsoft Azure Fundamentals, ISC2 Certified in Cybersecurity