

DAVID NGUYEN

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Education

University of Michigan | *Dean's List, University Honors*

B.S.E in Computer Science, Minor in Mathematics | GPA: 3.7

Expected Graduation: December 2027

Ann Arbor, MI

Relevant Coursework: Data Structures and Algorithms, Logic Design, Discrete Math, Linear Algebra, Multivariable Calculus

Experience

VOID Tech

January 2025 - April 2025

Software Developer

Ann Arbor, MI

- Designed the backend infrastructure with a team of 3 developers 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 HS

June 2023 – September 2023

IT Intern

Silver Spring, MD

- Refurbished over **600** previously distributed and broken student laptops to prepare **95%** of the laptops to upcoming freshmen 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 web 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, AWS, Azure

Certifications: AWS Cloud Practitioner, Microsoft Azure Fundamentals, ISC2 Certified in Cybersecurity

Interests: Haircutting, Weightlifting, Stock Investing, Music, Competitive Gaming, Vietnamese Culture