DAVID NGUYEN

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Education

University of Michigan | *Dean's Honors List*   **Expected Graduation: December 2027**
B.S.E in Computer Science, Minor in Mathematics | GPA: 3.7   *Ann Arbor, MI*
Relevant Coursework: C++ Programming and Data Structures, Logic Design, Discrete Math, Linear Algebra,
Multivariable Calculus
Upcoming Coursework: Data Structures and Algorithms, Computer Organization, Probability Theory

Experience

VOID Tech   **January 2025 - Present**
Software Developer   *Ann Arbor, MI*
- Engineered 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 Excel Sheets and audited the 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 become certified.

Springbrook High School   **June 2023 – September 2023**
IT Intern   *Silver Spring, MD*
- Troubleshooted and optimized over **600** previously distributed and broken student laptops to prepare **95%** of the laptops to the upcoming freshmen class.
- 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, FastAPI, Hugging Face, 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 UI friendly internship tracking web application with 10 developers using to assist students' ability to organize their applications in a competitive setting with a leaderboard with measurements such as a user's total applications.
- 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, Supabase, FastAPI, Pandas, NumPy, Git, AWS, Azure
Certifications: AWS Cloud Practitioner, Microsoft Azure Fundamentals, ISC2 Certified in Cybersecurity
Interests: Haircutting, Weightlifting, Stock Investing, Music, Vietnamese Culture