Jonathan Wylie

Portfolio: **jwylie.dev** — Computer Science Student

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Education

University of Michigan – College of Engineering *Aug 2024–May 2027*
BS in Computer Science (Expected), Minor in Mathematics

○ GPA: 4.0/4.0 – Dean's Honor List
○ Currently enrolled as a second-year student with 94 credits to date; junior year status
○ Relevant Coursework: Computer Networks, Web Systems, Data Structures & Algorithms, Computer Organization, Optimization and Computational Methods, Discrete Math, Linear Algebra

Salem High School – International Baccalaureate Diploma *Sept 2020–May 2024*

Experience

KPIT Technologies Inc. – Software Engineering Intern *Summer 2025*

○ Developed a Python-based tool to intelligently merge electrical diagrams and vehicle function descriptions of automotive control modules, significantly improving the efficiency of electrical system documentation
○ Developed a tool that analyzes multiple vehicle control module documents, automatically aligns corresponding sections side-by-side, and highlights differences in their content to streamline technical comparison and review

PARClife – Peer Mentor *2023–2025*

○ Provided social, behavioral, and academic support to teens and young adults with autism spectrum disorder at after-school and summer programs
○ Developed and implemented individualized strategies to ensure each mentee's success

Projects

E-Commerce Platform for Pureformance, an Energy Drink Startup In Progress

○ Built as the company's primary sales channel, featuring caching, secure payment, and a scalable product catalog
○ Tools Used: React, Node.js, MongoDB, Redis, Stripe

Formula 1 AI Radio Analyzer and Lap Visualizer *f1-pitwall.vercel.app* ↗

○ A 2-in-1 tool that uses a custom LLM and React graphics to provide unique insight on Formula 1 races
○ Tools Used: React, Python, Hugging Face, FastAPI

Blackjack and Card Counting Trainer *GitHub Repository* ↗

○ A Blackjack simulator that trains decision-making and card-counting, offering real-time feedback and Monte Carlo-based true count tracking
○ Tools Used: C++, SFML (C++ Library)

Extracurricular Activities

○ Active member in Hellenic Student Association, Michigan Hackers Club, IM sports (soccer, basketball)
○ Liverpool International Academy Soccer (Elite 64 / NL PRO) – Traveled to the UK for soccer matches and training
○ Hellenic Cultural Dance since 2017 – Boys Greek dance group leader

Honors and Awards

○ Regents Merit Scholarship, National Merit Scholarship, and William Clay Ford Jr. Scholarship Recipient
○ U.S. House of Representatives' Volunteer of the Year

Skills

Languages: C/C++, Python, JavaScript, SQL, HTML, CSS
Technologies: Git, Node.js, MongoDB, React, Linux, FastAPI
Interests: Liverpool (Soccer), Golf, Skiing, College Football, Basketball, Detroit Lions, Cooking