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 junior with 94 credits to date
- Regents Merit Scholarship, National Merit Scholarship, and William Clay Ford Jr. Scholarship Recipient
- 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 tool using pywin32 to intelligently merge Microsoft Visio electrical diagrams for automotive control modules, collaborating with a manager and partner to improve electrical system documentation efficiency.
- Developed a full-stack tool with a Django backend and JavaScript frontend that analyzes multiple vehicle control-module documents, aligns corresponding sections side-by-side, and highlights contextual differences using a Myers diff–based algorithm to streamline technical review.

PARClife – Peer Mentor *2023–2025*

- Provided social, behavioral, and academic support to over thirty teens and young adults with autism spectrum disorder at after-school and summer programs.
- Collaborated with teammates to develop and implement individualized strategies to ensure each mentee's success.
- U.S. House of Representatives' Volunteer of the Year

Projects

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

- Built the company's primary sales channel using React and Node.js, featuring a MongoDB-backed scalable product catalog, Redis caching for performance, and Stripe for secure payment processing.

Formula 1 AI Radio Analyzer and Lap Visualizer *GitHub Repository* ⧉

- Built a 2-in-1 analytics tool using Python, FastAPI, and a custom Hugging Face LLM, with a React-based visualization layer to deliver unique insights on Formula 1 races.

Blackjack and Card Counting Trainer *GitHub Repository* ⧉

- Built a Blackjack simulator in C++ using SFML that trains decision-making and card-counting, providing real-time feedback and Monte Carlo–based true count tracking.

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

Skills

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