Michael Swan

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EDUCATION

University of Connecticut   **Storrs, CT**
Bachelor of Science in Computer Science, Minor: Mathematics   May 2025
- **Concentration**: Software Development   **GPA:** 3.81
- **Honors:** Dean's List (Fall '21, Spring '23, Fall '23, Spring '24), Alpha Lambda Delta Honor Society

PROJECT EXPERIENCE

[NexusOdds](#) - *Co-founder*   May 2024 - Present
- Build and launch NexusOdds, a sports betting data analytics platform that processes **millions of data points per minute**, providing users with real-time data-driven insights
- Leverage **Supabase** to efficiently manage large datasets, ensuring fast and seamless data delivery to end users with an easy-to-understand UI and responsive frontend built using **React** and **Tailwind CSS**.
- Achieved **200+ active users** in the first month, indicating strong user engagement and market demand

[MarketChat](#) – *Personal Project*   Summer 2023
- Developed and launched "MarketChat" using the **MERN** stack, a financial web platform hosted on **Netlify** and **Heroku**, featuring a dynamic stock graph with data sourced from **AlphaVantage APIs**
- Leveraged **OpenAI's API** to integrate a GPT-powered chatbot, allowing users to ask complex financial questions and receive informed answers in real-time
- Enhanced search efficiency by **90%** by transitioning from real-time API calls to direct queries on a **MongoDB** database, complemented by a daily CRON job to ensure search result data remains current

[Portfolio](#) – *Personal Project*   Summer 2023
- Designed and built a responsive personal portfolio using **HTML**, **CSS**, and **JavaScript**
- Implemented a contact form using a **Netlify** serverless function with instant submission notifications

RELEVANT COURSEWORK

Intro to Principles of Programming	Intro to Computer Architecture	Algorithms and Complexity
Systems Programming	Intro to Discrete Systems	Principles of Databases
Data Structures & Object-Oriented Design	C++ Essentials	Artificial Intelligence

WORK EXPERIENCE

Teaching Assistant for Computer Architecture   **Storrs, CT**
University of Connecticut   August 2023 – Present
- Lead weekly lab sections, providing hands-on instruction and guidance to over 20 students, ensuring comprehension and practical application of core concepts
- Conduct weekly office hours for over 150 students to address student questions, providing targeted assistance and improving overall class performance

Computer Science & Engineering Tutor   **Storrs, CT**
University of Connecticut   August 2024 – Present
- Facilitate the Belonging, Engagement, Affinity Computer Hangout (BEACH) program, promoting community building and inclusivity among Computer Science students
- Provide academic support and mentorship to students in a collaborative learning environment

SKILLS

Languages: Python, JavaScript, HTML, CSS, TypeScript, SQL, C++
Technologies: React, Tailwind CSS, Node.js, Express, MongoDB, Supabase, Firebase
Developer Tools: Git, Netlify, Sentry, PostHog