

# 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 **400+ 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