Michael Kawwa

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EDUCATION

Stony Brook University   **Expected Graduation: May, 2026**
BS Computer Science   *Stony Brook University*

Relevant Coursework
- CSE 214: Data Structures and Algorithms, CSE 215: Foundations of Computer Science, CSE 220: Systems Fundamentals I, CSE 216: Programming Abstractions. CSE 373 Analysis of Algorithms, CSE 316: Software Development, CSE 337: Scripting Languages

WORK EXPERIENCE

Pulp Chat   **July 2023 - August 2023**
Software Engineer Intern   *Remote*
- I solely led the development of an in-house data collection web-app using python, flask, and SQLite and developed custom preprocessing tools for the data to be used with our machine learning models.
- Worked with a team of three other interns to help design, build, and maintain user interfaces, as well as the underlying infrastructure of the application using several programming languages including Node.js, JavaScript, and React as well as frameworks such as Express and Tailwind.
- Leveraged Prisma and PostgreSQL to accelerate database management and software development.
- Used Stripe payment processing to develop debate tournament mode in React and Express.

Black to Business   **July 2024 - August 2024**
Web Development Intern   *461 W. 126th Street, NY, NY 11027*
- Automated Podcast Transcription: Developed a Python script utilizing OpenAI Whisper to transcribe hundreds of hours of podcast content, deployed on Google Cloud Compute Engine for efficient processing at scale.
- Website Development & Optimization: Designed and implemented multiple web pages in WordPress, enhancing site interactivity and space optimization through custom JavaScript and CSS solutions.
- Custom PHP Development: Engineered custom PHP code to create reusable page templates, enabling streamlined creation of new content across the site.
- Data Analytics Automation: Wrote and deployed a Python script on Google Cloud Functions to automatically store and update podcast analytics in Google Sheets daily using the Google Sheets API.

LOQI - link-https://loqi.jiechen.dev/   **September 2023 - Present**
Software Engineer   *Stony Brook, NY*
- Contributed to Loqi, a cutting-edge Generative AI study app, by building interactive quizzes, chat features, and the landing page with React.js, improving user engagement and retention.
- Designed and implemented the backend API using Express.js and structured the backend database schema with Mongoose, ensuring efficient data handling and scalability.
- Utilized Cloudflare Tunnels to deploy a Microservices architecture, optimizing app performance and reliability.
- Collaborated with a multidisciplinary team to continuously improve the app's features and user experience.

Projects

InsomniChat - link-https://apps.apple.com/us/app/insomnichat/id1480915435?platform=iphone   2019
- IOS chat app developed with Swift and Firebase for the backend of the app. Connected people from all over the world into large group chats.

Phreddit (Reddit Clone)   2024
- A reddit clone developed as a final project for my Software Development course. I utilized React, Axios, Node, Express, and MongoDB, to design a reddit clone which allows the creation of posts, communities, and comments, facilitating seamless user interaction.

GoodEats - https://github.com/MichaelKawwa/GoodEatsSwiftUI   2021
- A nearby restaurant viewing app made in SwiftUI with a "tinder-like" swiping functionality, that takes in data from the Yelp Api and uses Core Location to get nearby restaurants

Skills

- Languages: Swift, Javascript/React, C, Python, CSS/HTML, Java, PHP, MIPS Assembly, Ruby, Shell Scripting
- Technologies: React JS, Node JS, Express JS, , MongoDB/Mongoose, Firebase, Xcode, Git/Github, Wordpress, GCP, AWS..