Adam Chen

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EDUCATION

Stony Brook University - Stony Brook, NY Dec. 2023

Bachelor of Science in Computer Science *GPA: 3.61*

- Dean's List - Fall 2021, Spring 2022, Spring 2023
- Relevant Coursework - Object-Oriented Programming, Data Structures, Programming Abstractions, Systems Fundamentals, Software Development, Analysis of Algorithms, Computer Security, Data Science, Computer Networks, Software Engineering

TECHNICAL SKILLS

Languages: JavaScript, Typescript, Python, Java, C/C++, HTML, CSS, SQL
Frameworks/Libraries: React, Angular, Flask, Express, Pandas, NumPy
Developer Tools: Git, Github, Amazon Web Services (EC2, S3, RDS), Node.js, MongoDB, Firebase

PROJECTS

TFTraining | *JavaScript, Python, Angular, Flask, HTML, CSS, SQL, AWS, Riot Games API*

- Developed a RESTful full-stack web application to facilitate access to TFT (Teamfight Tactics) user statistics and maintain user created content.
- Leveraged AWS EC2 for deploying the JavaScript/Angular front end and Python/Flask back end, AWS S3 for file storage, and AWS RDS and SQL for database management.
- Implemented multiple registration methods, enabling users to create accounts conventionally or through the Google Sign-In library, allowing for personalized profiles and saved created content for users.
- Integrated Riot Games API by sending REST HTTP requests to retrieve and display player statistics, enabling users to view both their own and others' statistics.

ShapeShifter | *JavaScript, React, Express.js, HTML, CSS, Node.js, MongoDB, Leaflet, Socket.IO*

- Collaborated with three others to develop and deploy a full stack web application allowing users to display, create, edit, and share 2D geospatial map data.
- Utilized the Leaflet library to dynamically visualize SHP, DBF, and GeoJSON file data on an interactive map interface.
- Incorporated user registration/login for personalized map management, enabling sharing and collaboration on maps with live updates via the Socket.io library for real-time collaborative editing.
- Implemented CI/CD using GitHub Actions for automated project deployment and testing.

Playlister | *JavaScript, React, Express.js, HTML, CSS, Node.js, MongoDB, AWS*

- Developed and deployed full stack CRUD web application on AWS EC2 servers, allowing users to create, edit, share, play, and comment on playlists comprised of YouTube videos.
- Implemented user authentication and authorization, allowing users to create accounts to store and save playlists.
- Built a transaction processing system that enables users to perform undo and redo functionality while modifying playlists.
- Utilized the React-YouTube library to allows users to see, play, pause, and skip through videos within a playlist.

Stratus Network | *JavaScript, React, MongoDB, Express, Node.js, Discord.js*

- Contributed to front and back end development of Stratus Network, a Minecraft gaming community with 5000+ users.
- Assisted in displaying stored user gameplay statistics and user match history on community website.
- Developed Discord bot commands utilizing the Discord.js library, tracking real-time user activity and retrieving user data from the back end.

WORK EXPERIENCE

Arista Prep. Jun. 2023 – Present

Tutor *New York, NY*

- Instructed math classes for middle and high school students, preparing them for upcoming grade levels or standardized tests such as SAT Math.
- Delivered personalized, one-on-one tutoring sessions to better students' comprehension and understanding of various mathematical concepts.