TszChing Stephen Chau

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GitHub: github.com/squal1

Education

Jessup University Rocklin, California
B.S. in Computer Science with Math minor, GPA: 4.0/4.0 Aug 2020 - Current

Technical Skill

- Languages: JavaScript, TypeScript, Python, C#, Java
- Frameworks & Techs: React, Express.js, TailwindCSS, Flask, Keras, MongoDB, Cytoscape, AWS

Work experience

Full Stack Developer May 2023 - Aug 2023
Devlytics

- Developed **responsive web interface** for a system to analyse candidate's code repository and examine programming skills, proficiency in languages and experiences
- Utilized **Chart.js** for dashboard and interactive graphs to visualize various analysis information
- Designed and documented **relational database schema** and **RESTful API** routes

Research Experience

Avian Species Classification Using BirdNET Model Sept 2023 - Current
Jessup University

- Developed and documented **Bash** scripts and **Python** scripts to **automate data preprocessing and mass analysis** with over 4000 audio recordings
- Utilized **AWS EC2** and **S3** to process and store recordings on cloud
- Developed great data preprocessing skills and model evaluation skills with critical thinking

Personal Project

Jchannel github.com/squal1/jchannel Mar 2022 - Sept 2022
A **MERN stack** project of a online discussion forum for everyone at Jessup University

- Implemented responsive and interactive layout for **excellent accessibility** for both PC and mobile platforms
- Designed a **popularity algorithm** to calculate thread popularity with **Mongodb Aggregation**
- Integrated **Google Identity** for user verification and protecting APIs through **JWT authentication**

Spotify Playlist Generator github.com/squal1/spotify-playlist-generator Mar 2023
A **ML** project to provide song suggestions and automatically add them as a playlist on Spotify

- Utilized **random forest classifier** to analyze Spotify audio feature data and user input
- Connected the AI model with **Flask** server to generate song suggestions from API calls

Extracurricular Activity & Achievement

- Vice-President of the mathematics honor society Kappa Mu Epsilon Oct 2022
- Winner of the 2021 Jessup Hackathon Nov 2021