Brandon Chiou

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EDUCATION

University of California San Diego — Aug. 2023 – Present
B.S. Data Science — *3.88 GPA*
Coursework: Advanced Data Structures, Advanced Algorithms, Database Systems

EXPERIENCE

Software Engineer Intern — Aug. 2023 – Sep. 2023
RealSun Information Tech Co. Ltd — *Taipei, Taiwan*
- Developed an ETL tool using Java and MariaDB to store data from XML files
- Cleaned and transformed raw data from XML to MariaDB
- Developed an application to retrieve data from the company's API endpoints to connect to multiple databases
- Improved data migration pipeline, increasing productivity for the back-end team

PROJECTS

Harmony Messaging, Voice, and Video App | *React, Rocket, Postgres, AWS* — July 2024 - September 2024
- Created a full stack messaging, voice, and video app using **React** and **Rocket**, where users can interact in chat rooms and direct messages
- Used **AWS S3** and **CloudFront** to store and deliver images for icons, profile pictures, and messages
- Utilized **WebRTC** for voice and video calls and **websockets** for messaging
- https://harmonyapp.xyz/
- https://github.com/binkybarnes/harmony

Money Tracker App | *React, MongoDB, Express.js, Node.js* — December 2023 – December 2023
- Created an interface with **React** to submit, update, and delete transactions to a **MongoDB** database
- Developed CRUD endpoints for retrieving data using **Express**
- Deployed the project to vercel

Spotify Playlist Downloader | *Python* — August 2023 – Setember 2023
- Wrote a Python script to download Spotify playlists locally
- Leveraged Spotify and YouTube APIs to aggregate song audio files

Amazon Review Sentiment Analysis | *Python, Jupyter* — May 2023 – May 2023
- Wrote a Python script to scrape Amazon product reviews, then performed sentiment analysis on the reviews
- Used a text classification checkpoint to generate sentiment scores

TECHNICAL SKILLS

Languages: JavaScript, Rust, C++, Python, Java, R
Technologies: React, AWS, Postgres, Rocket, Express.js, Docker, Nginx, Node.js, MongoDB, Express.js, MariaDB