Austin Shih

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Education

University of California, Davis
Computer Science & Statistics (ML Track) double major, B.S.   GPA: 3.98/4.00 | June 2025
Technology Management Minor
Coursework: Data structures & Algorithms, Discrete Math, Statistics, Machine Learning
Student Organizations: Tech Lead at #Include, Webmaster for Alpha Phi Omega - Iota Phi

Experience

IGN Entertainment - Software Engineering Intern   Summer 2022
- Prototyped game activity timeline for users to track played games
- Updated and created database tables with Knex.js for new features
- Wrote GraphQL schema changes and exhaustive unit tests with best coding practices
- Pushed clean and tested code to production

#Include at Davis - Tech Lead   Winter 2022 - Present
- Lead cohort of 10 developers in creating a full stack web application for local clients
- Mentor cohort members on best coding practices and perform in-depth code reviews
- Deployed 2 websites for local businesses within 10 weeks

Projects

Music Mood Classifier   Flask, Next.js, Google Cloud, Scikit-Learn, Librosa
Machine Learning music mood classifier
- Trained Random Forest model on Kaggle achieving over 90% accuracy.
- Dataset involved labeled 5 second audio files.
- Features extracted from averages of MFCC's, mel spectrograms, and chromagrams.

TortlePoll - Live Polling Website   Next.js, MongoDB, Firebase Auth, Pusher, Chart.js
Filter results by demographic group, track your polls, take public polls or keep polls private
- Website fully deployed on Vercel, please check it out here.
- Leverages Pusher for real time poll updates, each poll has its own channel.
- Integrated Firebase auth for users to keep track of their own polling data.
- Dynamic data visualization using Chart.js with lots of customization.

Skills

Machine Learning, Cloud Computing, Full Stack development, Relational databases
Tools - TensorFlow, Postgres, MongoDB, Firebase, Node.js, Git, Apollo/GraphQL
Languages - C++, Java, JavaScript, Python, C#, Php, HTML/CSS, TypeScript, SQL
Libraries/Frameworks - React.js, Next.js, Knex.js, Express.js, MaterialUI, Laravel, Unity