

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 a new rewards system.
- Wrote GraphQL schema changes and exhaustive unit tests with best coding practices.
- Pushed clean and tested code to production.

Advantech - Technology Information Intern

Summer 2021

- Automated common IT tasks with batch and powershell scripts.
 - Developed automatic computer setup script saving 30 minutes per computer.
 - Created system to automatically update computer information lists.
 - Utilized Python to generate scripts for updating the DHCP.
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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.

TurtlePoll - 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.
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Skills

Machine Learning, Full Stack development, Relational databases, HTTP, Cloud Computing

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