

AUSTIN SHIH

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EDUCATION

University of California, Davis

GPA: 3.98/4.00 | Jun 2025

B.S. Computer Science | B.S. Statistics (machine learning track) | Minor in Technology Management

SKILLS: Full stack development, Project management, Machine learning, Databases, DevOps

FRAMEWORKS: Next.js, React.js, Express.js, Apollo, Jest, Tensorflow, Github Actions, Flask

LANGUAGES: C++, JavaScript, TypeScript, Python, Java, C#, HTML/CSS, SQL, GraphQL

TOOLS: PostgreSQL, MongoDB, Firebase, Node, Github, Github Projects, AWS

EXPERIENCE

IGN Entertainment | San Francisco, CA

Jun 2022 - Aug 2022

Software Engineering Intern

- Wrote production ready Apollo server code for user rewards system for 300 million users
- Developed Google Optimize A/B tests ran on 1000+ users to improve site usability
- Independently built backend support for game activity tracker and visualizer for IGN hack day

Advantech | Milpitas, CA

Jul 2021 - Aug 2021

Information Technology Intern

- Implemented batch and powershell scripts to optimize and automate repetitive IT tasks
- Developed automatic computer setup script saving 30 minutes per new computer
- Created system to automatically update computer information lists for 200+ employees

LEADERSHIP

#Include at Davis

President

Jun 2023 - Present

- Proactively building out infrastructure to increase our capacity for large scale client projects
- Leading 25 developers in development of Content Management System & E-Store Framework
- Teaching industry standards for Next.js and Apollo servers learned from prior internships
- Developed DevOps pipeline with Github Actions to provide smooth development experience

Technical Lead

Jan 2023 - Jun 2023

- Managed cohort of 10 developers in creating a full stack web application for local clients
- Performed meticulous code-reviews to ensure pixel perfect attention to detail to match designs
- Deployed <https://www.bloomandvine.net> & <https://ielctutoring.com> within 10 weeks

HackDavis

Technical Director

Oct 2023 - Present

- Leading development of judging app used to collect and judge 100+ hackathon submissions
- Implementing secure user authentication system with JWT tokens for 1000 hackers
- Designing and maintaining clean and scalable Typescript and Next.js full stack codebase

PROJECTS

Music Mood Classifier - moodify.austinshih.com

Flask, Next.js, AWS, Scikit-Learn, Librosa

Machine Learning music mood classifier

- Trained Random Forest model achieving over 95% accuracy and 0.95 F1-score
- Features extracted from averages of MFCC's, mel spectrograms, and chromagrams
- Reliably deployed with Nginx & Unicorn on AWS EC2

Live Polling Site - tortlepoll.austinshih.com

Next.js, MongoDB, Firebase Auth, Pusher, Chart.js

Filter results by demographic group, track your polls, take public polls or keep polls private

- Implemented user authentication for users to keep track of their own polling data
- Dynamic data visualization using Chart.js and Pusher for live updating