

Brandon Wong

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EDUCATION

University of California, Davis

Davis, CA | Expected Graduation June 2025

Computer Science, B.S. and Statistics, B.S. (Machine Learning Track)

Technology Management Minor | GPA: 3.67

Coursework: Data Structures and Algorithms, Advanced Deep Learning, Computer Vision, Computer Networks, Computer Architecture, Time Series Analysis, Data Science, Combinatorics, Discrete Math, Operations Management, Entrepreneurship

SKILLS

General: Mobile and Full Stack Development, Machine Learning, Databases (PostgreSQL, MongoDB), Git, Linux

Languages: C++, C, Swift, Python, Javascript, Typescript, Java, HTML, CSS, SQL, GraphQL, R

Frameworks: SwiftUI, Next.js, PyTorch, Scikit-learn, React.js, Apollo GraphQL, Express.js, Node.js, React Native

EXPERIENCE

Apple | Software Engineering Intern

Cupertino, CA | June 2023 - Sept 2023

- Developed macOS Music Recognition and ShazamKit features in Swift for over 100 million monthly users
- Independently started a digital signal processing research project, developing a functional prototype
- Took initiative to pitch a new feature prototyped for an intern contest to the Health team leadership
- Learned best coding and design practices through meticulous code reviews and delivered robust code

HackDavis | Technical Director

Davis, CA | Oct 2023 - Present

- Built hackdavis.io and judging.hackdavis.io for a student-run hackathon with over 1000 attendees
- Designed and implemented an algorithm to facilitate judging and scoring, ensuring fairness in the process
- Led technical workshops, teaching SwiftUI, Next.js, and full stack web and mobile development skills

include at Davis | Technical Product Manager

Davis, CA | Sept 2023 - Present

- Developing a content management system and an e-store framework for local clients in Davis
- Performed code reviews, enforcing industry standards to ensure site reliability and scalability
- Learned system design when architecting codebases using Next.js, Apollo GraphQL, and PostgreSQL

AggieWorks | Software Engineer

Davis, CA | Jan 2023 - June 2023

- Built and deployed a roommate matching app in React Native for UC Davis Student Housing
 - Implemented database functions, image caching, and 10+ reusable and reliable UI components
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PROJECTS

Song Vocal Extraction ([Github](#))

PyTorch, Scikit-learn, and Librosa

- Trained a deep convolutional U-Net to isolate song vocals using spectrograms, producing a research report
- Currently implementing a transformer based variant, and deploying the model to a website using Flask

Shazam Social ([Github](#))

SwiftUI, Realm, and MongoDB

- Developed a social media app with MVVM architecture for users to share Shazamed songs
- Implemented user authentication, a custom map, and a versatile cached image component

Shopp'r ([Github](#))

SwiftUI, Node.js, Express.js, Realm, and MongoDB

- Developed a shopping list app using text recognition to scan price tags, creating a purchases API