

# ALANA KOSHIKAWA

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## EDUCATION

**The University of Texas at Austin** - Austin, TX

**May 2026**

*Bachelor of Science, Computer Science*

Minor: Business

GPA: 3.22

### Related Coursework

Data Structures, Computer Architecture, Principles of Computer Systems, Software Engineering, Object Oriented Programming, Data Management, Principles of Machine Learning, Human-Computer Interactions, iOS Mobile Computing

## SKILLS

**Languages** - Java, Python, C, C++, JavaScript, TypeScript, HTML, CSS, SQL, Swift

**Frameworks & Libraries** - React, React Native, Next.js, SwiftUI, UIKit, TensorFlow, FastAPI, Scikit-learn, Pandas, NumPy

**Tools & Technologies** - Git, GitHub, REST APIs, Docker, CI/CD, AWS (EC2, RDS, Amplify), Firebase, Supabase, Vercel, Figma

## PROJECTS

### SketchShare

**April 2026**

- Developed a real-time artwork trading platform enabling map-based local discovery and personalized user settings
- Implemented geospatial queries for proximity-based matching and optimized state synchronization across sessions
- Tech Stack: Swift, UIKit, Firebase (Authentication, Firestore, Storage), MapKit, Figma (UI/UX)

### Life Simulation

**November 2025**

- Designed and implemented a grid-based simulation using polymorphism, inheritance, and abstraction
- Built automated testing workflows with 10+ unit tests, 100+ cases, static analysis, memory checks, and CI/CD pipelines
- Tech Stack: C++, GitLab CI/CD, Google Test, Make, Valgrind, gcov, cppcheck

### Food Quality Analyzer

**August 2025**

- Designed and launched a full-stack web application providing real-time produce quality analysis for public users
- Implemented backend services and API endpoints to support model inference and scalable application workflows
- Trained and deployed a machine learning model for 7-class produce classification and freshness evaluation
- Tech Stack: TypeScript, Python, TensorFlow, FastAPI, Hugging Face, Docker, Vercel

### Unseen Canvas

**April 2025**

- Developed a full-stack website in a team of five to support community engagement through a scalable web platform
- Configured cloud infrastructure using AWS (EC2, RDS) to support application hosting and database services
- Designed backend architecture diagrams documenting system components, APIs, and data flows
- Tech Stack: JavaScript, Python, React, MySQL, Docker, GitLab CI/CD, AWS (EC2, RDS, Amplify)

### EventHive

**April 2025**

- Built a real-time event planning application enabling user authentication and cloud-based data storage
- Integrated Firebase Authentication and Firestore to support persistent event data and real-time collaboration
- Evaluated alternative interaction flows through A/B testing while maintaining data consistency and access controls
- Tech Stack: JavaScript, React, Firebase (Authentication, Firestore), Figma (UI/UX)

## ACTIVITIES

**Freetail Hackers** - Austin, TX

**January 2025 - April 2026**

*Hackathon Outreach and Creative Organizer*

- Planned and promoted UT's hackathons (1000+ attendees) via outreach and designed prototype site layout in Figma
- Engaged with attendees and coordinated with organizers across multiple teams on day-of logistics and execution

**Women in Computer Science & STEM Girl Day** - Austin, TX

**August 2022 - April 2026**

- Attended workshops on mobile development, UI/UX design, and supported a 10,000+ attendee STEM outreach event

## EXPERIENCE

**The University of Texas at Austin, University Unions** - Austin, TX

**August 2022 - April 2026**

*Cash Operations Student Associate*

- Managed cash exchanges, cash bags, and 200+ financial records in accordance with university auditing procedures
- Reviewed and approved daily deposits containing financial reports from 2+ business operations systems