

EDUCATION

University of California, Berkeley

Berkeley, CA

Anticipated Graduation May 2027

B.A. in Computer Science; GPA: 3.68

o Relevant Coursework: Data Structures, Algorithms, Artificial Intelligence, Linear Algebra, Discrete Mathematics.

TECHNICAL EXPERIENCE

Autonomous Systems Lab, Lawrence National Laboratory

Berkeley, CA

September 2025 – Present

o Led 20-member team to 1st place at State Championships (3 consecutive years).

o Completed intensive training in React Native and Swift, focusing on ML integrations for mobile apps.

React Native Developer, Mobile Developers of Berkeley

Berkeley, CA

Aug 2024 – Present

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Solar Data API Intern, Energesque

Los Angeles, CA

Aug 2024 – May 2025

o Built solar data APIs and pipelines processing irradiance data for ML forecasting models.

o Developed a Java program to convert JSON files to CSV/TSV for efficient data normalization.

EKG Research Developer, University of Arizona ECE

Tucson, AZ

May 2023 – Present

o Developed an Android EKG app with BLE integration computing RMSSD for human trials.

o Collaborated in a 3-person team to deliver a full mobile health data collection system for research deployment.

President & Lead Programmer, FIRST Tech Challenge

Tucson, AZ

Aug 2020 – May 2024

o Led 20-member team to 1st place at State Championships (3 consecutive years).

o Architected autonomous Java codebase achieving top performance rankings statewide.

PRIMARY PROJECTS

Flow Kode — Agentic AI, Typescript

Aug 2023 – Nov 2023

o Fact-checking iOS app with a custom ML model trained on 100+ curated news articles; published on the App Store

Spike Inclusive — React Native, BLE, iOS

Jan 2023 – Present

o iPad app enabling students with disabilities to program LEGO robots via a custom BLE command layer.

o Published on the App Store and integrated in district curricula, serving 100+ students.

ARES — Python, ReactJS, Azure Cosmos DB

Jan 2024 – Present

o Real-time FTC statistics platform + Discord bot serving 500+ teams nationwide.

o Built scalable backend on Azure for match analytics and OPR rankings via REST API.

FitRealm — React Native, Supabase, OpenAI API

Jan 2025 – May 2025

o Developed a gamified fitness app with AI-generated workouts, social guilds, and progress tracking.

o Integrated the OpenAI API for personalized quest generation and behavior reinforcement.

Hoax Hunter — Swift, Create ML

Aug 2023 – Nov 2023

o Fact-checking iOS app with a custom ML model trained on 100+ curated news articles; published on the App Store.

LEADERSHIP & ACTIVITIES

Coach & Judge, FIRST LEGO League

Tucson, AZ

Aug 2020 – Present

o Mentored teams to first-place finishes in programming and robot design at regional and state competitions.

Lifeguard & Swim Instructor, City of Tucson / Amphitheater HS

Tucson, AZ

Mar 2023 – Oct 2024

o Taught swimming and water safety to 200+ students.

AWARDS & ACHIEVEMENTS

National Hispanic Scholar (2023) · AP Scholar with Distinction (2022–24).

Oracle Java Certified Foundations Associate (2023) — Validates fluency in Java programming fundamentals.

FIRST LEGO League Mentor & Coach Award (2023) — Recognized for robotics mentorship excellence.

TECHNICAL SKILLS

Languages: Java, Python, Swift, JavaScript, SQL, HTML/CSS.

Frameworks: React Native, React, Node.js, NumPy, Pandas.

Tools/Platforms: Firebase, MongoDB, AWS, Azure Cosmos, Supabase, Xcode, Android Studio, Cloud Databases, Oracle Cloud Infrastructure.