

EDUCATION

University of California, BerkeleyBerkeley, CA

B.A. in Computer Science; GPA: 3.68 (Major)

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

TECHNICAL EXPERIENCE

Autonomous Systems Lab Assistant, Lawrence National LaboratoryBerkeley, CASeptember 2025 – Present

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

React Native Developer, Mobile Developers of BerkeleyBerkeley, CA

Aug 2024 – Present

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

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

Solar Data API Intern, EnergesqueLos Angeles, CA

Aug 2024 – May 2025

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

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

EKG Research Developer, Univ. of Arizona ECE/BME

Tucson, AZ

May 2023 – Present

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

◦ 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

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

◦ Architected autonomous Java codebase achieving top performance rankings statewide.

PRIMARY PROJECTS

Flow Kode — Agentic AI, Typescript

Aug 2023 – Nov 2023

◦ 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

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

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

ARES — Python, ReactJS, Azure Cosmos DB

Jan 2024 – Present

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

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

FitRealm — React Native, Supabase, OpenAI API

Jan 2025 – May 2025

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

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

Hoax Hunter — Swift, Create ML

Aug 2023 – Nov 2023

◦ 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

◦ 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

◦ 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: GitHub, Firebase, MongoDB, AWS KDS, Azure Cosmos, Supabase, Xcode, Android Studio, Cloud Databases.