

EDUCATION

University of California, Berkeley	Berkeley, CA	<i>Anticipated Graduation May 2027</i>
B.A. in Computer Science; GPA: 3.68		
◦ Relevant Coursework: Data Structures, Algorithms, Artificial Intelligence, Linear Algebra, Discrete Mathematics.		

TECHNICAL EXPERIENCE

Research Assistant Lawrence Berkeley National Lab	Berkeley, CA	<i>Sep 2025 – Present</i>
◦ Conducting autonomous systems research in the Laser Technologies Group, focusing on advanced control automation.		
◦ Learning and implementing LabVIEW for software to hardware interfacing and experimental system automation.		
React Native Developer Mobile Developers of Berkeley	Berkeley, CA	<i>Jan 2025 – Present</i>
◦ Developing for Baro, an early-stage startup, to design and implement web UI components and data workflows.		
◦ Completed intensive training in React Native and Swift, focusing on ML and database integrations for mobile apps.		
Solar Data API Intern Energesque	Los Angeles, CA	<i>Aug 2024 – May 2025</i>
◦ Built solar data APIs to process, clean, and aggregate irradiance datasets for machine learning energy forecast models.		
◦ Developed a modular Java utility to normalize large JSON datasets into CSV formats, improving analysis efficiency.		
EKG Research Developer University of Arizona ECE	Tucson, AZ	<i>May 2023 – August 2024</i>
◦ Built an Android EKG application with sensor integration to compute RMSSD data in controlled 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	<i>Aug 2020 – May 2024</i>
◦ Managed and directed a 20-member robotics team to 1st place at State Championships for three consecutive years.		
◦ Architected an autonomous Java robotics codebase optimized for reliability and speed, achieving top state rankings.		

PRIMARY PROJECTS

Flow-kode	Agentic AI, Typescript, Visual Studio Code	<i>Oct 2025 – Present</i>
◦ AI code-agent platform leveraging multi-step workflows, tool-chain automation, and developer productivity agents.		
◦ VS Code wrapper with a custom task UI for project workflow, refactoring, and autonomous development tasks.		
Spike Inclusive	Bluetooth Low Energy (BLE), React Native, Accessibility	<i>Jan 2023 – Present</i>
◦ iPad app allowing students with disabilities to program LEGO robots through a custom BLE command layer.		
◦ Deployed on the App Store and implemented in district curricula, enabling 10+ challenged students to learn robotics.		
ARES	Python, Oracle Cloud Infrastructure, Supabase Studio	<i>Jan 2024 – Present</i>
◦ Real-time FTC robotics statistics dashboard app, website and Discord bot serving 500+ students nationwide.		
◦ Built scalable backend on Oracle Cloud Infrastructure for match analytics and OPR rankings via REST API.		
FitRealm	React Native, Supabase, OpenAI API	<i>Jan 2025 – May 2025</i>
◦ Built a gamified fitness app combining AI-generated workouts, social guilds, user progress, and motivational feedback.		
◦ Leveraged the OpenAI API to generate personalized quests, dynamic narratives, and adaptive reinforcement loops.		
Hoax Hunter	Swift, Create ML, Firebase Firestore	<i>Aug 2023 – Nov 2023</i>
◦ 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	<i>Aug 2020 – Present</i>
◦ Mentored 15+ teams in programming and design, with several first-place finishes at regional and state competitions.		
Lifeguard & Swim Instructor City of Tucson	Tucson, AZ	<i>Mar 2023 – Oct 2024</i>
◦ Taught swimming and water safety to 50+ students, emphasizing technique and risk awareness across varied ages.		

AWARDS & ACHIEVEMENTS

National Hispanic Scholar (2023) · AP Scholar with Distinction (2022–24)	— Academic scholar recognitions.
Oracle Java Certified Foundations Associate (2023)	— Validates fluency in Java and object-oriented design.
FIRST LEGO League Mentor & Coach Award (2023)	— Recognized for outstanding robotics mentorship.

TECHNICAL SKILLS

Languages: Java, Python, Swift, TypeScript, JavaScript, SQL, HTML/CSS, Scheme.
Frameworks/Libraries: React Native, React, Node.js, Express, FastAPI, Flask, NumPy, Pandas, Tailwind CSS.
Tools/Platforms: Supabase, Firebase, MongoDB, PostgreSQL, AWS, Oracle Cloud Infrastructure (OCI), Azure Cosmos DB, Docker, GitHub Actions, Cloudflare, Xcode, Postman, Vercel, Netlify, Google Cloud, REST + GraphQL APIs.