

# Jacob Lembach

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## EDUCATION

**Cal Poly Pomona | B.S in Computer Science | December 2025 | 3.6 GPA**

**Courses:** Mobile Application Development, Web Search & Recommender Systems, Data Structures, Design & Analysis of Algorithms, Systems Programming, AI, Machine Learning, Object Oriented Programming, Discrete Math, Formal Languages & Automata

## ACADEMIC WORK EXPERIENCE

**Frontend Software Engineer** | BroncoBond

*Aug 2024 - Feb 2025*

- Designed responsive Flutter UIs for a social platform
- Integrated event management, group messaging, and location-based features
- Ensured a stable experience with thorough testing and debugging

**Front End Lead** | Icebreak

*Feb 2023 - Aug 2024*

- Built and optimized React interfaces for a campus social platform
- Implemented event scheduling, messaging, and personalized feeds
- Optimized performance for fast, accessible user experiences

## VOLUNTEER WORK

**UI Designer** | College Voter Registration Outreach

*Oct 2024*

- Developed a UI for an internal admin panel to streamline voter registration
- Integrated an OCR model for automated data extraction in swing states
- Built with HTML and CSS for a lightweight and efficient interface

## PROJECTS

**Aidio** | 1st place, *Google Student Developer Club* Hackathon

*Nov 2024*

- Built a browser-based audio synthesizer using TypeScript and OOP patterns
- Developed a dynamic UI with React for real-time audio control

**Intellilearn** | 2nd place, *Microsoft/Avanade AI for a Better Future* Hackathon

*April 2024*

- Fullstack AI chatbot application using MERN stack
- Built a RESTful API with Express.js for server-side logic and database management
- Designed Mongoose models for clean API-database abstraction
- Deployed a local LLM with Ollama to reduce SaaS dependency
- Hosted backend locally via Ngrok, avoiding cloud reliance
- Developed a React-based dynamic UI with live text for a smooth UX

**BroncoPay** | Object Oriented Programing Final

*Dec 2024*

- Optimized BroncoBucks with faster transactions and campus business integration
- Built a secure financial system with MySQL, Express, and role-based access
- Designed UI in Figma, implemented with React, MUI, and Docker

## ON CAMPUS POSITIONS

**Tutor** | Cal Poly Pomona - Pomona, CA

*Aug 2024 - Present*

- Assisted students with homework, study habits, and exam prep
- Identified weaknesses and improved problem-solving skills

## SKILLS

**Languages:** TypeScript, Python, C, C++, Dart, Bash, HTML, CSS, SQL

**Technologies:** Figma, React, Tailwind, Vite, MySQL, Postman, Flutter, Unix, Git