Prabhav Rao

United States Permanent Resident | prabhavrao@ucla.edu | 510-953-2962 | [LinkedIn](#) | [GitHub](#) | [Portfolio](#)

EDUCATION

University of California, Los Angeles   Los Angeles, CA
Bachelor of Science in Computer Science + Mathematics, Minor: Data Science Engineering, GPA - 4.0   *June 2027*

Ohlone College   Fremont, CA
Associate of Science in Mathematics, GPA - 3.51,   *May 2025*
Activities: *Third Place in Ohlone College Code Cup(OC3) Hackathon,* AI Club

EXPERIENCE

Backend Software Engineer Intern   June 2025 - Present
Teens 4 Teens   *Remote*
- Currently building a full-stack HR solution by developing a custom Applicant Tracking System (ATS), projected to cut manual hiring tasks by over 50%.
- Engineering the system using a no-cost stack (React, Node.js, Python, Google Apps Script) to automate applicant screening, interview scheduling, and new-hire onboarding.
- Integrating Calendly, Slack, and Google Workspace APIs to create a seamless, end-to-end user experience for both applicants and the HR team.

Product Design Intern   May 2024 - July 2024
Kahoot!   *Remote*
- Guided the product's strategic redesign by defining key usability challenges and feature opportunities through comprehensive user research with over 35 students and teachers.
- Improved product usability and simplified the teacher workflow by designing and prototyping a major UI/UX overhaul that introduced a new content categorization system and a streamlined backend layout.
- Addressed critical user feedback on high content creation effort by pioneering a Generative AI feature concept that used prompt engineering to automate the generation of new "Sparks".

PROJECTS

Trading Strategy Backtester | *Pandas, Matplotlib, Alpha Vantage API* | [current progress](#)   June 2025 - Present
- Currently Building a quantitative analysis tool to historically validate trading strategies by implementing a backtesting engine in Python that uses Pandas for data manipulation and Matplotlib for visualizing performance.

Real-time Stock Watchlist with News | *Flask, JavaScript, CSS, HTML* | [current progress](#)   June 2025 - Present
- Currently building a full-stack stock analysis dashboard to provide real-time market data by building a Python Flask REST API and a dynamic JavaScript frontend that consumes data from the Finnhub and NewsAPI services.

File compressor with Web Interface | *C++, Flask, JavaScript, CSS, HTML* | [project](#)   Jan. 2025 - Mar. 2025
- Developed a full-stack file compression tool using a C++ backend for Huffman coding logic and a Python Flask/Tailwind CSS frontend, achieving a 58% average lossless compression rate for .txt and .pdf files via both web and command-line interfaces.

Mixed Fraction/Decimal Calculator with Web Interface | *C++, Flask, HTML* | [project](#)   Oct. 2024 - Dec. 2024
- Developed a versatile calculator by implementing a C++ backend with operator overloading to perform arithmetic on mixed fractions and decimals, exposed through a dual-interface system with a Python Flask web UI and a command-line utility.

TECHNICAL SKILLS

Languages: C/C++, Java, Python, JavaScript, HTML/CSS
Frontend: Next.js, React.js, Bootstrap
Backend: Python Flask, Django, SQL, Node.js, Supabase, Pandas
Other Tools/Skills: Git, Docker, OCI Cloud, VS Code, IntelliJ, VIM, Generative AI, LLMs (Large Language Models)