

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

June 2027

Relevant Courses: Data Structures and Algorithms, Computer Networks, Operating Systems, Calculus Series, Linear Algebra

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* | [↗](#)

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* | [↗](#)

May 2025 - June 2025

- Built 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* | [↗](#)

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* | [↗](#)

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, Golang, OCI Cloud, Linux/Unix, VS Code, IntelliJ, Verilog, VIM, LLMs, Agile, Financial Markets