Prabhav Rao

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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, Advanced Algorithms, Differential Equations*

EXPERIENCE

Backend Software Engineer Intern June 2025 - August 2025

Teens 4 Teens *Remote*

- Engineered a **Python** backend with **Flask**, **Celery**, and **SQLAlchemy** to build a full-stack HR automation platform, automating recruitment from application to final decision, reducing manual processing, and centralizing applicant data.
- Developed an automated, multi-stage screening service that filters candidates by GPA, age, and async keyword scoring from **AWS S3** resumes, increasing interview-stage candidate quality by **50%.**
- Built a secure, role-based Flask **REST API** to power an HR dashboard, enabling real-time applicant tracking, stage updates, and interview evaluations, empowering the team with efficient access to candidate information.

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

- Developed a full-stack stock watchlist dashboard using **C++** with **Crow** for the backend, implementing **multithreading** for efficient data handling, and **HTML/CSS/JavaScript** for the frontend to enable real-time stock price tracking and news aggregation from live APIs.

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++, Python, Java, JavaScript, HTML/CSS

Frontend: Next.js, React.js, Bootstrap

Backend: Python Flask, Django, MySQL, Node.js, Supabase, Pandas

Other Tools/Skills: Git, Docker, Golang, OCI Cloud, VS Code, Verilog, VIM, Agile, Multithreaded/Concurrent Programming