

# Pravin Rajah

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## EDUCATION

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**University of California, Berkeley | Berkeley, CA**

**B.S. in Electrical Engineering and Computer Science | GPA: 3.75**

**May. 2027**

**Awards/Honors:** EECS Honor Society (HKN), IEEE

**Relevant Courses:** Data Structures and Algorithm, Discrete Mathematics and Probability Theory, Computer Architecture, Structure and Interpretation of Computer Programs, Designing Information Devices and Systems (I & II)

**Spring 2026 Courses:** Operating Systems and System Programming, Optimization, Machine Learning

## PROFESSIONAL EXPERIENCE

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**Software Engineer Consultant | SAP | Berkeley, CA**

**Sep. 2025 - Present**

- Built an AI assistant that automated UX research analysis across usability studies, A/B tests, and analytics data.
- Implemented NLP features to interpret prompts, summarize findings, and recommend usability testing strategies.
- Delivered a web tool/Figma plugin that streamlined design workflows and automated competitor benchmarking.

**Full-Stack Developer | Berkeleytime | Berkeley, CA**

**Sep. 2025 - Present**

- Engineered a real-time discussion platform integrated into BerkeleyTime, enabling 5000+ UC Berkeley students to post and manage comments with live updates, persistent storage, secure authentication, and seamless user experience.
- Extended platform coverage across 300+ UC Berkeley classes, ensuring seamless integration in course infrastructure.
- “Designed and deployed a GraphQL API with Mongoose, providing reliable CRUD operations, automatic timestamping, and robust error handling consistent with production code standards and long-term maintainability.

**Quality Assurance Intern | UC Berkeley | Berkeley, CA**

**Jun. 2025 - Present**

- Developed and maintained over 40+ automated Ruby/Selenium test scripts for critical features on UCB’s student portal, reducing repetitive manual testing that would normally take hours per run each development cycle.
- Created QA workflows to catch regressions, increasing reliability for a site used by 50,000+ students and faculty.
- Collaborated with developers to debug and resolve complex infrastructure issues, ensuring smooth semester rollouts.

**Full-Stack Developer Consultant | HARP AI | Berkeley, CA**

**Sep. 2024 - Dec. 2024**

- Built real-time study features to display text word-by-word, improving focus and comprehension (React/Firebase).
- Integrated PDF upload/preview with a secure backend for reliable and consistent note access (Flask, PostgreSQL.).
- Delivered MVP study tool piloted by students, combining attention-focused reading with note-taking features.

## PROJECT EXPERIENCE

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**Stock Dashboard For Analysis and Backtesting | Personal Project**

**Jun. 2024 - Present**

- Developed a full-stack analytics dashboard (React, Express, Yahoo Finance API) to explore concepts in quantitative finance, teach myself key fundamentals, and experiment with different investment strategies and predictive models.
- Created charts for trends, rolling volatility, drawdowns, CAPM beta/alpha to evaluate risk-adjusted performance.
- Built reusable UI components and backend APIs for metrics (CAGR, Sharpe, max drawdown, volatility).

**Dynamic Course Description Model | HKN Committee | Berkeley, CA**

**Sep. 2024 - Dec. 2024**

- Developed a dynamic course description feature using Django’s template inheritance, enabling scalable page generation that integrated seamlessly with the existing base.html structure, layouts, and Django URL routing system.
- Implemented a database-driven content management workflow by designing and integrating a CourseDescription model with slug-based URLs, enabling SEO-friendly navigation, and improving overall content discoverability.
- Delivered a feature that streamlined access to course information, supporting 5000+ students in course selection and detailed academic planning without the need of managing 300+ individual files for each course with relevant data.

## LEADERSHIP EXPERIENCE

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**Board Member | Sierra Service Project | Sacramento, CA**

- Started initiative to increase youth board membership involvement and advisory council membership by 45%.
- Created initiatives to draw new youth and engage the current youth community with SSP across 4 counties.
- Provided perspective on 15+ different service projects aimed at community improvement and advocated for youth initiatives requiring board approval creating larger youth attraction to student leadership within SSP.

## TECHNICAL SKILLS

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**Languages/Tools:** Python, Java, Javascript, HTML, CSS, SQL, Ruby, Selenium, C, RISC-V, Cucumber, Docker, Git

**Frameworks:** React.js, Angular.js, GraphQL, PostgreSQL, Node.js, Flask, Django, Firebase, NumPy, Pandas, Next.js