

Prathik Kallepalli

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EDUCATION

University of California, Santa Cruz <i>B.S. in Computer Science (Minor: Technology and Information Management)</i>	Santa Cruz, CA Sep 2021 - Mar 2025
<ul style="list-style-type: none">• Relevant Coursework: Data Structures and Algorithms, Python Programming, C Programming, Artificial Intelligence, Natural Language Processing, Game AI, Functional Programming• Awards: Dean's Honors Award(Top 15% of academic group) - Fall '21, Winter '22, Spring '22, Fall '22, Fall '23• Clubs: Slug AI, Indian Student Association, Formula Slug	

EXPERIENCE

Cisco Systems <i>Full Stack Engineer I, Returns, Repairs, Replacements (RRR)</i>	July 2025 – Present San Jose, CA
<ul style="list-style-type: none">• Developing full-stack internal tools to automate return-goods workflows across global logistics teams.• Building an AI-powered virtual assistant for return requests, status tracking, and policy queries, reducing tickets.• Developed RESTful Python APIs enabling logistics data integration and automation.• Leveraging cloud-native tooling and CI/CD pipelines to deliver scalable, maintainable enterprise solutions.	
YourBookTeam <i>Software Engineering Intern</i>	August 2024 – February 2025
<ul style="list-style-type: none">• Built and maintained client websites using Squarespace, focusing on clean design and easy content management.• Linked SQL-managed data to Squarespace by exporting JSON and embedding it with custom code blocks.• Helped transition to a flexible tech stack by developing modular components with HTML, CSS, and JavaScript.	
AIEA Lab at Baskin Engineering	June 2024 – Jan 2025
<i>AI Researcher</i>	Santa Cruz, CA
<ul style="list-style-type: none">• Researched explainability in LLMs under Professor Leilani Gilpin through the LLM Logic Project, aiming to improve AI transparency and reliability.• Built Python script to generate GPT-4 prompts to convert natural language into Prolog facts using OpenAI's API.• Designed and evaluated prompt engineering techniques to improve structured output.• Validated outputs with SwiProlog to trace reasoning paths, detect logic errors, and guide model improvement.	
UCSC Baskin Engineering	Jan 2024 – June 2025
<i>Tutor and Grader</i>	Santa Cruz, CA
<ul style="list-style-type: none">• Tutored and graded students in Intermediate Python, Discrete Mathematics, Calculus 2, Foundations of Programming Languages, Foundations of Video Game Design, Computer Architecture, and Computational Models• Conducted personalized tutoring sessions to help students grasp complex concepts in programming and mathematics, resulting in an average grade improvement of 15% for tutored students.• Evaluated assignments, quizzes, and exams, maintaining fairness, following established criteria and grading rubrics.	

PROJECTS

Serene (Cruzhacks 2022 Best Design Award) <i>Python, React, Firebase, PyTorch, Tkinter</i>	
<ul style="list-style-type: none">• Engineered an AI-driven mental health support chatbot, integrating machine learning and NLP techniques.• Led chatbot development using Python and React.js, using keyword detection to provide relevant user responses.• Innovated with Python GUI libraries to prototype the chatbot, showcasing effective response mechanisms.	
Streakify <i>Swift, Firebase</i>	
<ul style="list-style-type: none">• Developed Streakify, a Swift-based habit tracking app with goal management and user engagement features.• Led front-end development, ensuring a smooth and intuitive user experience.• Integrated Google Firebase for reliable user authentication and efficient data synchronization across devices.	

TECHNICAL SKILLS

Languages: Python (4yrs), C/C++ (2yrs), Java (1yr), SQL (Postgres), HTML/CSS/JavaScript, Haskell, Swift, RISC-V
Frameworks: React, Vue.js, Flask, WordPress, Firebase, Django, TensorFlow, PyTorch, Kubernetes, REST API
Developer Tools: Git, Docker, GCP, Vertex AI, AWS, VS Code, PyCharm, Figma, MongoDB, Agile, Squarespace
Libraries: pandas, NumPy, Matplotlib
Artificial Intelligence: Large Language Models, Natural Language Processing