

Anvi Kudaraya



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University Of California, Merced – B.S. Computer Science and Engineering + B.S. Cognitive Science

May 2027

- **Courses:** Data Structures/Algorithms, Linear Algebra & Differential Equations, Neural Networks, Computer Vision, Machine Learning, Natural Language Processing, Probability & Statistics, Vector Calculus

SKILLS

Programming Languages: Java, C++, Python (object-oriented), JavaScript, TypeScript, HTML/CSS, SQL, Bash

Frameworks/Tools: React, Node.js, Flask, Tkinter, FastAPI, REST APIs, Tailwind CSS, VSCode, Linux/Unix, MacOS, Jupyter

Other: Agile Methodologies, UI/UX, Microsoft Word, Git, GitHub, Software Development Life Cycle, AWS

WORK EXPERIENCE

Technical Lead | Google Developer Student Clubs

September 2025 - Present

- Led four-member team to design and build a full-stack campus carpooling platform
- Architected the system with **React.js (Vite/Tailwind)** frontend, **Node.js REST APIs**, and **microservices**, and a **PostgreSQL Supabase** database to support trip creation, ride matching, and role-based dashboards.
- Deploy **Docker**-containerized services on **AWS** w/ GitHub Actions **CI/CD**, ensuring scalability and automated backups

AI/ML Extern | Outamation (through Extern)

November 2025 - Present

- Building Python-based pipelines that combine **OCR**, **NLP**, and **Retrieval-Augmented Generation (RAG)** to convert unstructured mortgage PDFs into structured, searchable data.
- Fine-tuning **Natural Language Processing** model to extract and normalize key financial entities from multi-hundred-page PDFs, enhancing data consistency.

National Science Foundation | Algorithm Design Theory Undergraduate Researcher

May 2025 - July 2025

- Designed and implementing two geometric data structures: Greedy Range Trees and Greedy Tree for Product Metrics, to improve multi-dimensional range query efficiency and scalable data filtering
- Developed formal proofs & performance simulations to validate algorithm efficiency, authoring a research paper

Software Engineering Intern | University of California, Merced

August 2024 - May 2025

- Optimized reinforcement learning model for precise irrigation in almond orchards, reducing freshwater consumption by 20%.
- Automated **API**-driven data ingestion, cutting preprocessing time by 80% and enabling daily retraining for 100+ almond trees in under 30 minutes.
- Built **Flask** dashboard to graph **IoT** sensor data from **CouchDB** using **Pandas**, **NumPy**, & **Matplotlib**, for decision-making.
- Developed Python OOP scripts to streamline Raspberry Pi sensor data analysis, improving data accuracy & long-term usability

Software Engineering Intern | Brain Chain

May 2023 - August 2023

- Designed/developed **Python** text-extraction application using regular expressions and **Tkinter GUI** achieving 95% accuracy in parsing structured data from PDFs & automates extraction of key dates & sentences, reducing analysts' manual review time.
- Published the application on Gumroad, streamlining research workflows for industry professionals.

PROJECTS/OPEN SOURCE CONTRIBUTIONS

Open-Source Software Engineer Intern | CodeDay - Excalidraw Open-Source Project

November 2025 - Present

- Contributing multiple production PRs to a large **TypeScript/React** codebase, working on core canvas logic and tool behavior
- **Debugging** event handling and shared state issues across different interaction modes, and **writing documentation** to improve code readability and long-term maintainability and ensuring all test cases pass
- Working with maintainers through **PR reviews & issue discussions** to refine implementations & meet project standards

LEADERSHIP

Associated Students of University of California, Merced | Senator, At Large

May 2025 – Present

- Elected by the undergrad student body to serve as Senator-at-Large, representing **10,000+ students** by advocating for their needs, shaping campus policy, & overseeing a **7-figure budget** to fund programs, organizations, and legislative initiatives.

180 Degrees Consulting Founder/President @ UC Merced

October 2024 - Present

- Founded UC Merced's first consulting club, growing to 40+ active members from 75+ applicants in one semester
- Led 12 client engagements for 8 organizations, managing cross-functional teams (3–5 members) using **Agile methodologies** and **sprint cycles**.
- Drove stakeholder communication to align requirements, prioritize deliverables, and achieve 100% on-time delivery.
- Developed and maintained the club website, reaching 8,000+ students and streamlining applications and client outreach.

Calculus 1 + 2 Learning Assistant

August 2024 – Present

- Collaborating w/ prof. to support lectures of **200–250** students by clarifying concepts and strengthening course understanding.
- Host 2 office hours weekly to assist on unclear topics & help prepare for class assessments + review for midterms and final

CERTIFICATIONS

IBM Project Manager + Deep Learning with PyTorch, Keras & Tensorflow Professional Certificate - IBM, 2024