Anvi Kudaraya

Pleasanton, CA | +1(510)-565-2631 | Authorized to work in the US | Open to relocation
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EDUCATION

University Of California, Merced - B.S. Computer Science and Engineering + Cognitive Science   **Dec 2026**

Relevant Courses: Data Structures/Algorithms, Lin Algebra & Diff Equations, Neural Networks, Computer Vision, Machine Learning

Extracurriculars/Orgs: Society of Women Engr, Rewriting the Code, CodePath, ACM, 180 Degrees Consulting

SKILLS

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

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

Other: Agile Methodologies, UI/UX, Git, GitHub, Software Development Life Cycle, JIRA, CI/CD, AWS, Vercel

EXPERIENCE

Technical Product Manager + Software Developer| Google Developer Student Clubs   **July 2025 - Present**
- Leading five-member team to design and build a **full-stack campus carpooling platform** to serve 10,000+ UC Merced students
- Architect the system with **React.js (Vite/Tailwind)** frontend, **Node.js REST API** and **FastAPI microservices**, and a **PostgreSQL** database to support trip creation, ride matching, and role-based dashboards.
- Integrated **Stripe** for secure payments and **Google Maps APIs** for real-time routing, fare estimation, and geolocation search.
- Deploy Docker-containerized services on **AWS** w/ **GitHub Actions CI/CD**, ensuring scalability, automated backups, & high availability.

AI/ML Extern | Outamation   **Aug 2025 - Present**
- Built Python-based pipelines that combine **OCR, NLP, and Retrieval-Augmented Generation (RAG)** to convert unstructured mortgage PDFs into structured, searchable data.
- Fine-tuned **NLP** models to extract and normalize key financial entities from multi-hundred-page PDFs, enhancing data consistency.

National Science Foundation (NSF) Algorithm Design Theory Undergraduate Researcher   **May 2025 – July 2025**
- Designing 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
- Developing formal proofs & performance simulations to validate algorithm efficiency, co-authoring a research paper for conf. submission.

Undergraduate AI/ML Researcher | University of California, Merced   **Aug 2024 – Present**
- Optimizing a reinforcement learning model for precision irrigation in almond orchards, reducing freshwater consumption by up to 20%.
- Automated **API-driven** data ingestion (soil, weather, irrigation), 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**, improving decision-making.
- Developed **Python OOP** scripts to streamline Raspberry Pi sensor data analysis, improving data accuracy and long-term usability.

Software Engineer Intern | Brain Chain   **May 2023 - Aug 2023**
- Designed/developed **Python** text-extraction application using regular expressions and Tkinter GUI that achieves 95% accuracy in parsing structured data from PDFs and automates the extraction of key dates & sentences, significantly 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 | Eclipse PDE Open-Source Project   **Oct 2024 – Feb 2025**
- Contributed to the Eclipse PDE open-source project by analyzing 100+ Java files, refining project requirements, and enhancing IDE usability for streamlined dependency management.
- Implemented new Java functions to expand visibility of critical dependency info, improving developer workflow for managing large-scale projects. Wrote a "New and Noteworthy" entry to highlight key software updates, streamlining navigation & optimizing user experience

LEADERSHIP

Associated Students of University of California, Merced – Senator, At Large   **May 2025 – Present**
- Elected by the undergraduate student body at UC Merced to serve as Senator-at-Large, representing 9,000+ students by advocating for their needs, shaping campus policy, and overseeing a **seven-figure** budget to fund programs, organizations, and legislative initiatives.

180 Degrees Consulting Founder/President @ UC Merced   **Oct 2024 - Present**
- Founded UC Merced's first consulting club, building corporate & nonprofit partnerships, leading 25+ members across six projects in market analysis, technology, and finance ensuring 100% on-time delivery of client solutions.
- Delivered strategic + technical projects including SEO optimization (10%–15% traffic lift) & an AI-powered telehealth chatbot **(Next.js, PyTorch, Gemini)**. Created chapter website, enabling 9,000+ students to access apps & facilitating streamlined business outreach.

Calculus 1 + 2 Learning Assistant   **Aug 2024 – Present**
- Collaborating w/ prof. to support lectures for 200–250 students by clarifying concepts and strengthening course understanding.
- Host two office hours weekly to assist on unclear topics & help prepare for class assessments + host review for midterms and final

CERTIFICATIONS

IBM Project Manager Professional Certificate - IBM, 2024

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