

Pravir S. Chugh

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EDUCATION

University of California, Los Angeles
B.S. in Computer Science

Expected Graduation: June 2026
GPA: 3.79/4.00

Relevant Coursework: Software Engineering · Operating Systems · Computer Systems Architecture · Logic Design · Computer Organization · Algorithms · Programming Languages · Machine Learning

TECHNICAL SKILLS

Languages: Python · C · C++ · Java · JavaScript · SQL

Systems / Networks: Linux · Distributed Systems · Multi-threading · Concurrency · Containers (Docker) · Git

AI / ML: PyTorch · TensorFlow · Hugging Face · Vector Databases (HANA) · RAG · LLMOps · Agents

Tools: Flask · Django · Node.js · Data Analysis (NumPy, Pandas, SciPy)

WORK EXPERIENCE

SAP **June 2024 – Present**

Software Engineering Intern (AI/ML Team)

- Integrated a real-time code summarization service into Ariba's code review workflow, improving review consistency and reducing average turnaround from ~5 days to ~2 days across 50+ engineers.
- Built the end-to-end onboarding and orchestration pipeline for Ariba's recommendation system, including customer enrollment flows, secure data ingestion, scheduled model training jobs, and automated data deletion for opt-outs.
- Scaled LLM infrastructure via multi-threading and async processing, raising throughput from 15 to 100 requests/min.
- Replaced legacy keyword search with a semantic vector search system (HANA + embedding models), improving product match relevance to ~90% recall across procurement categories.
- Built a scalable, embedding-based retrieval engine for large Java codebases, enabling modular chunking, indexing, and querying, and contributed to a pending patent based on this design.
- Led systems architecture discussions and code reviews across platform and ML teams to ensure reliability, correctness, and safe rollout of new components.

UCLA Security Lab

November 2024 – June 2025

Research Assistant

- Developed a multi-agent LLM framework to detect vulnerabilities in binary programs by analyzing execution paths and memory behavior, enabling automated CWE classification without access to source code.
- Engineered and evaluated model performance on real-world and synthetic C program datasets, achieving 92% accuracy in multi-class CWE classification and co-authoring a paper submitted to ACM CCS 2025.

Bruin AI @ UCLA

October 2023 – June 2025

Director of External Affairs

- Secured partnerships with AI industry leaders, creating internship and project opportunities for club members.
- Delivered technical presentations on LLM training and fine-tuning workflows to ~40 students.

Stanford Institute for Human-Centered AI

June 2023 – September 2023

AI Research Intern

- Fine-tuned transformer models on GPT-4/LLaMA outputs to analyze how biases propagate in downstream models.
- Evaluated ~100K model-generated outputs and quantified bias using embedding-based association metrics, identifying a 15% amplification in downstream tasks.