SIDDHI PRAJAPATI

Software Engineer | AI Systems | Machine Learning | Backend | Full-Stack
Irvine, California, USA | +1 (949) 740-5591 | siddhi2277@gmail.com | linkedin.com/in/siddhi-prajapati-127483268 | github.com/Sixxhi
sixxhi.github.io | Available: Summer 2027 (CPT) | Full-Time Jan 2028 (OPT)

EDUCATION

University of California, Irvine - Donald Bren School of Information & Computer Sciences
B.S. Computer Science, Specialization in Intelligent Systems | Minor in Statistics — Sep 2024 – Dec 2027
GPA: 3.663 / 4.0 | Dean's Honor List: Fall 2024, Winter 2025, Winter 2026, Spring 2026
Relevant Coursework: *Artificial Intelligence (A), Information Retrieval (A+), Design & Analysis of Algorithms, Data Structures (A-), Linear Algebra (A+), Systems Programming C/C++, Discrete Math (A), Statistics (A-) |* ***Current:*** *Data Management, Probability in Computer Science, Machine Learning and Data Mining*

EXPERIENCE

AI Software Engineer | *hyrAI / SkillJourney | Remote* — Aug 2026 – Sep 2026
- Built a labeled dataset of **300+ flagged integrity violations** and used it to debug and reduce **false-positive flags** in an AI voice and video interview platform.
- Ran **precision-recall analysis** and **threshold tuning** to raise detection accuracy while preserving recall on real violations.

Undergraduate Research Assistant | *UCI Calit2 SMART ITAC | Irvine, CA* — Apr 2026 – Jun 2026
- Built **VR simulations** in SimInsights HyperSkill for energy assessments and data center cooling efficiency, applying **ASHRAE** and **ISO** standards.
- Developed **AI-agent reasoning workflows** on ITAC assessment data and built **backend pipelines** for agent evaluation, observability and simulation feedback.

Data Science Research Intern - Fake News Detection | *3E Worldwide / CHARUSAT | Remote* — Jun 2025 – Jul 2025
- Built an end-to-end **NLP pipeline in Python** (TF-IDF, Logistic Regression, Decision Trees) reaching **~91% accuracy on 10,000+ articles**.
- Validated results with **F1, precision-recall, ROC-AUC and 5-fold cross-validation**, identified a **data leakage** risk and documented the methodology.

Open-Source Development Intern | *BizzAppDev Systems | Remote* — Jul 2023 – Aug 2023
- Contributed **backend modules** to an open-source **Python/XML** codebase on **PostgreSQL**, following modular design patterns and **REST API** conventions.

PROJECTS

IMMUNE - UC Berkeley AI Hackathon 2026 | *Python · RediSearch · Claude Haiku · LangGraph · FastMCP · Arize Phoenix · OpenTelemetry* — Jun 2026
- With my team, built a deterministic AI agent memory integrity system addressing **OWASP ASI06** memory poisoning, proving guilty memories through counterfactual replay and ddmin delta debugging with no LLM judge in the attribution loop. **Documented and published on dev.to.**
- Enforced quarantine at the **Redis KNN vector index level** (RediSearch FLAT, cosine), with 44 tests across poisoning and staleness scenarios.

GlassBoxAI - AWS Cloud Hacks 2026 (Winner, AI Safety Track) | *AWS Lambda · Amazon Bedrock · Three.js · Figma* — Apr 2026
- Built a real-time AI safety observability platform in 24 hours, detecting **100% of injected high-risk scenarios** in testing with zero false negatives.
- Owned the full backend (Lambda, Bedrock pipelines, safety scoring) and frontend (Three.js globe UI, Figma design), catching a critical **Bedrock API parsing bug** via live endpoint testing before the demo.

ZotStudy - ZotHacks 2026 (Team Lead) | *React · Vite · JavaScript · Firebase · Vercel* — Oct 2026
- Led a first-time hackathon team in building a **web app to find, create and join UCI study sessions** using **React, Vite, Firebase Authentication and Firestore**, deploying it on **Vercel** and helping teammates resolve errors, including Git merge conflicts.

CodeCraftHub - AI-Augmented Developer Learning Platform | *Node.js · Express.js · MongoDB · Docker · Generative AI* — Mar 2026
- Designed **REST APIs** and backend services using **Node.js, Express.js and MongoDB** for a developer learning platform with AI features.
- Containerized the application with **Docker** and automated **CI/CD** using **GitHub Actions** and version control workflows for an IBM edX capstone.

Data Structures and Algorithms Labs (C++) | *C++ · Data Structures · Algorithms · GoogleTest · CMake* — Mar 2026
- Implemented ArrayList, LinkedList, circular queue, QueueStack and sorting algorithms in C++ with OOP, tested with GoogleTest and CMake.

Python Systems Projects | *Python · SQLite · Tkinter · Event-Driven Architecture* — Jun 2025
- Built a discrete-event alert propagation simulator, a SQLite-backed airport database engine with a Tkinter GUI and parameterized CRUD operations, and a Grin language interpreter with label resolution, branching and call-stack execution.

CERTIFICATIONS

- **CI/CD for Salesforce** (DevOps Launchpad, official certification, Jul 2026) · **Node.js Certification** (Scaler Topics, May 2026)
- **IBM edX: Mastering Generative AI for Software Development** (Mar 2026) · **Harvard CS50x** (HarvardX, verified, Jul 2025)

LEADERSHIP & COMMUNITY

Learning Assistant, ICS 31: Intro to Programming | *UC Irvine, Donald Bren School of ICS | Irvine, CA* — Sep 2026 – Present
- Supported 30+ students in ICS 31 (Python), held office hours, clarified concepts, provided code feedback and completed UCI CLAP training.

Adobe Student Ambassador | *Adobe | Irvine, CA* — Aug 2026 – Present
- Promote creative AI and design tools within UCI's CS community.

TECHNICAL SKILLS

Languages: Python, Java, C, C++, SQL (PostgreSQL), JavaScript, HTML/CSS, R | **Concepts**: Object-Oriented Programming (OOP), Data Structures, Algorithms

Frameworks & Backend: Node.js, Express.js, Flask, React, REST APIs, MongoDB, PostgreSQL, SQLite, Redis, Firebase

AI / ML: Machine Learning, LLMs, NLP, AI Agents, Vector Search, scikit-learn, NumPy, Pandas, Matplotlib, TF-IDF, ROC-AUC, Logistic Regression, Decision Trees, Cross-Validation, Precision-Recall, LangGraph, FastMCP, Redis RediSearch, Arize Phoenix

Cloud, DevOps & Tools: AWS Lambda, Amazon Bedrock, Claude API, Vertex AI, CI/CD, Docker, GitHub Actions, OpenTelemetry, Git, GitHub, GoogleTest, CMake