

Ankit Sachdeva

Full-Stack Software Engineer · Backend Systems & AI

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US citizen, legally authorized to work in the US without sponsorship

Experience

dynaConnections

Software Engineer

Austin, TX

August 2025 – Present

- Shipped the ingestion pipeline and consumer-side REST integration behind a \$4.8M data-share partnership – together, a 1M-record containerized delta sync that replaced a nightly 8h full reload with a 50min incremental load
- Built a company-wide hosted MCP server (adopted by 26 engineers across 6 teams) that grounds AI agents in a shared, queryable layer of product schemas, field metadata, and institutional domain knowledge
- Rebuilt the saved-search experience as a React UI for searching, saving, and sharing listings, backed by a tuned Elasticsearch query path that cut p95 search latency from 1.4s to 280ms across a platform of 48K real estate agents
- Automated 140 previously manual end-to-end test scenarios with an agentic-AI testing platform (Claude Code skills orchestrating Playwright), catching 80+ pre-release defects in its first 2 months

Quality Engineering Intern

May 2025 – August 2025

- Led 3 interns building a parallel test-execution engine (mutex-backed scheduling, pooled test users, DB-proxy isolation) that cut end-to-end suite runtime 80% (3h to 36min) across 7 customer environments
- Stood up a Docker/Ansible CI/CD pipeline that ran the full suite on every commit and on demand with one command

PayPal

Software Engineer Intern

San Jose, CA

June 2022 – September 2022

- Prototyped a distributed-ledger file exchange (Solidity/web3.js) and benchmarked it against the incumbent: reconciliation 3x faster via a single shared ledger at higher per-transaction cost, informing the settlement org's on-chain feasibility review
- Authored a decision memo on Ethereum smart-contract patterns, security, and integration paths for the settlement org

Fox Factory

Embedded Software Engineer Intern

Scotts Valley, CA

September 2021 – January 2022

- Engineered C firmware for the wireless [Live Valve Neo suspension system](#) (Nordic nRF52), achieving sub-15ms BLE wake-to-actuate latency to meet the product's responsiveness and battery-life targets
- Root-caused driver- and sensor-level faults on prototype hardware, with fixes adopted into the shipped production firmware

Baskin School of Engineering at UCSC

Group Tutor & Reader

Santa Cruz, CA

March 2022 – June 2024

- Automated plagiarism detection and autograding via GitLab CI/CD, reducing grading turnaround 80% on weekly submissions
- Mentored 600+ students across Computer Systems, Data Structures & Algorithms, and Database Systems in weekly office hours

Tech4Good Lab at UCSC

Undergraduate Research Assistant

Santa Cruz, CA

January 2022 – March 2022

- Extended the [Salesforce AI Economist](#) with PyTorch apprenticeship-learning agents, improving cooperative-task reward 18% over a self-interested RL baseline in simulation
- Compared 5 multi-agent RL algorithms on convergence and stability, guiding the lab's algorithm selection

Education

Georgia Institute of Technology

M.S. Computer Science (Artificial Intelligence)

GPA 4.0/4.0

August 2024 – May 2026

University of California, Santa Cruz

B.A. Computer Science and Engineering

GPA 3.8/4.0

September 2020 – June 2024

Projects

Account Leasing MCP: TypeScript MCP server (400+ weekly npm downloads) that brokers exclusive, crash-safe leases on a test-account pool via atomic SQLite transactions and TTL auto-reclaim, so concurrent agent sessions never share credentials

QuantLab: Next.js/TypeScript app that turns plain-English trading ideas into backtests; an LLM compiles each idea into a structured strategy DSL, run by a pure-TS engine over free market data (Yahoo, Polymarket) and benchmarked against buy-and-hold

LiftLens: Python/MediaPipe/OpenCV/Tkinter desktop app for pose estimation on lift videos; measures joint angles, flags form faults per lift phase, and generates LLM coaching prompts

Skills

Languages: TypeScript, JavaScript, Python, Java, C/C++, SQL, Bash

Technologies: MCP (Model Context Protocol), LLM & agentic systems, React, Next.js, Node.js, Spring Boot, PostgreSQL, MongoDB, Elasticsearch, Docker, Kubernetes, AWS, GCP, PyTorch, Playwright, Ansible, CI/CD, Git, Linux, REST APIs