

Pranav Mulakala

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EXPERIENCE

Sage | Sage Intacct, Data Platform & Reporting

Oct 2025 – Present

Graduate Cloud Engineer

San Jose, CA

- Independently built DPR Multiplayer AI: 10+ Snowflake Cortex agents in Slack, piloted with 10 senior stakeholders; engineers reported **4–5 hours saved per investigation**. Placed 2nd of 50 teams in Sage’s company-wide hackathon.
- Replaced slow ranking queries over a 2.8 TB dataset with pre-aggregated rollups and clustered tables, reducing measured latency from **45–55s to 1.3–2s**; enforced read-only SQL, access controls, and freshness checks.
- Automated an 11-step AWS/Azure runbook with OAS Install Co-Pilot, using resumable execution, keyless OIDC, and audit logging; provisioned 3 pods and cut completion time from **4–5 hours to 30 minutes**.
- Unified infrastructure and data-platform troubleshooting in DPR Command Center through a shared registry exposing 22 tools across Slack, CLI, and MCP; validated tool behavior with 1,250+ automated tests.
- Diagnosed a recurring outage caused by a 29-day kernel memory leak; led recovery across 7 cloud-storage integrations, including a credential failure affecting **15 production servers**.

Whistle AI

Dec 2025 – Present

Co-Founder & Full-Stack Engineer

Remote

- Built a FastAPI/React platform to turn basketball footage into labeled training data using ffmpeg and YOLOv8; owned data preparation, annotation validation, and model training alongside a co-founder.
- Evaluated violation detection on **one referee-reviewed pilot game**: 92% precision (23/25 flags) and 95.8% recall (23/24 violations); secured 1 customer pilot and a signed trial agreement following 100–150 customer interviews.

Okta, Inc. | Anaplan Engineering

Jun 2025 – Sep 2025

Product Analyst

San Francisco, CA

- Automated Boomi-to-Anaplan bookings reporting with a Python/AWS pipeline using Gemini-directed data transformations; processed 1 TB of data and saved FP&A **3 days of manual reporting work**.
- Validated transfers against scenario-based test cases and final publication checks before moving from sandbox to production; added error summaries and an FP&A chatbot for budgeting, planning, and cost analysis.

MOURI Tech

Jun 2024 – Aug 2024

Software / Data Engineer Intern

Irving, TX

- Automated accounts-payable email sorting with a deployed Python, GPT-4, and RAG classifier, achieving 85% precision and **80% less manual sorting time** in timed comparisons.

PROJECTS

superglue | Independent Open-Source Project | TypeScript, Next.js, PostgreSQL, Docker

2026

- Built REST/SSE diagnostics APIs and a Next.js dashboard used by superglue’s co-founder; added run contracts to detect data loss and duplicates, catching 10/10 injected incidents with 3 false alarms across 248 evaluated simulated runs.
- Built a 17-case LLM triage eval with deterministic grading; across two Gemini models, Flash-Lite scored **16/17 at 1.1s median**.

Deterministic Trading Research Platform | Python, SQLite, Linux, Alpaca API

2026

- Engineered a 13-stream market-data ingestion pipeline with checkpointed restart recovery, SHA-256 integrity checks, and a hash-chained SQLite event journal for reproducible research.
- Implemented an Alpaca paper-trading adapter with idempotent order handling, state reconciliation, kill switches, and 150+ tests; completed 28 pre-registered experiments with independent verification.

WaterFilterRobo | Robotic Membrane Refurbishment | Python, MuJoCo, LeRobot

2026

- Built a 5-stage Python pipeline on physical SO-101 robot arms to automate membrane handling, cleaning, and assembly, with human verification of final cleanliness.
- Evaluated the pipeline in MuJoCo/LeRobot simulation: 97.5% completion across 120 trials, cleaning coverage validated across 273 targets, and 10/10 injected assembly defects detected.

EDUCATION

University of California, Santa Cruz

Sep 2022 – Dec 2025

B.S. Computer Science | GPA: 3.81/4.0 | Dean’s Honors: 6 times

Coursework: Data Structures, Object-Oriented Programming, Machine Learning, Artificial Intelligence, Full-Stack Web Applications, Cloud Engineering, Probability & Statistics

TECHNICAL SKILLS

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

AI & Backend: Gemini, RAG, MCP, Snowflake Cortex, PyTorch, HuggingFace, YOLOv8, FastAPI, React, SQLAlchemy

Cloud & Infrastructure: AWS, Azure, Snowflake, Docker, Terraform, Ansible, GitHub Actions, Linux, PostgreSQL

Certifications: AWS AI Practitioner (2026) | Azure Fundamentals AZ-900 (2025) | AWS Cloud Practitioner (2023)