

Pranav Mishra

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EDUCATION

The Pennsylvania State University

Bachelor of Science in Computer Science; Minors: Mathematics, Business (GPA 3.5)

May 2025

University Park, PA

SKILLS & CORE COMPETENCIES

Languages: Python, TypeScript, Go, Java, SQL

Agents: multi-agent orchestration, Claude Agent SDK + MCP (servers, gateways, skills), OpenAI Realtime API, LangGraph, AutoGen, agentic RAG, tool calling & structured outputs, agent sandboxing, human-in-the-loop design

Evals & Reliability: Inspect (UK AISI), eval-gated CI, guardrails, LLM tracing & observability (OpenTelemetry, Logfire), feature flags

Systems & Infra: Temporal (durable execution), NATS, event-driven architecture, Postgres/pgvector, Qdrant, Supabase, AWS, GCP, Docker, Kubernetes, GitHub Actions

Product & Frontend: React, Next.js, Electron, SvelteKit, REST/GraphQL; agentic dev tooling (Claude Code, Codex, Cursor); AWS Certified Cloud Practitioner

EXPERIENCE

Harper (YC W25, \$47M Series A)

AI Forward Deployed Engineer

Oct 2025 – Present

San Francisco, CA

- Built Dumbly, a voice intake copilot (Electron, OpenAI Realtime API) used by 20+ operators to run 300–400 intakes a day; cut manual intake ~70% and accelerated submission-to-quote turnaround.
- Created DaVinci, a background coding agent that drives tickets through research, planning, execution, and integration testing on ECS/Fargate, root-causing each failed round before retrying.
- Built full-funnel ad attribution capturing GCLID/MSCLKID click IDs at first touch, uploading offline conversions through the Google and Microsoft Ads APIs, and firing Customer.io lifecycle campaigns from production events.

SalesPatriot (YC W25)

Forward Deployed Engineer

Aug 2025 – Oct 2025

San Francisco, CA

- Shipped bid-intake and quoting used by 10+ defense manufacturers for DoD RFQs (SvelteKit, Supabase); built ingestion landing email, PDF, and CSV RFQs in Postgres quoting tables, cutting bid turnaround 7–10x.

Sail

Founding Engineer

Jun 2025 – Aug 2025

United States

- First engineer; built GPT-4o RAG on pgvector, voice via Twilio and ElevenLabs, and outbound automation, cutting pilot customers' manual follow-ups ~65%.

Deloitte

Technology Strategy & Engineering Intern

May 2024 – Aug 2024

New Delhi, India

- Built Python/SQL screening across 10k+ M&A prospects; automated ETL and reporting, cutting quarterly cycles from five days to hours.

OPEN SOURCE & WRITING

[livekit/agents](#) | voice-agent framework behind ChatGPT voice mode

Python, asyncio

- Fixed stored tool-call arguments crashing a voice agent's subsequent turns across the Anthropic, Google, and AWS chat formatters; added provider-level tests failing on main and passing with the fix.

[claude-agent-sdk-python](#) | Anthropic's official agent SDK

Python

- Added list-of-content-blocks system prompt support to the subprocess CLI transport, enabling layer-independent prompt caching per the Messages API spec; covered string, file, preset, and list forms with tests.

Writing | essays and case studies on production agent systems

pranavmishra.app/writing

- DaVinci case study covering multi-agent orchestration on ECS/Fargate, SQS FIFO scheduling, Step Functions capacity gating, a three-role executor loop that root-causes failures, and human review gates as durable state.
- Essays on durable execution as the agent reliability layer, agent-to-agent B2B interfaces, and human-in-the-loop architecture.