

Stavan Shah

stavan@enjoyflying.com | github.com/Whiteknight07

AI-native software engineer | Computing-education researcher

Experience

UBC EduAI Lab

May 2026 – Present

Secondary technical lead / Research team

Kelowna, BC

- Secondary technical lead working with a six-student engineering team across EduAI Core and its extensions. Handled architectural decisions, PR reviews, daily stand-ups, and review meetings with professors and other stakeholders. Most of my time in this role went into architectural and review work.
- Contributed architectural decisions for the move from a polyrepo to a monorepo and shared services for authentication, roles, courses, Canvas, data, retrieval, and models. Helped translate those decisions into scoped implementation and release reviews.
- Designed and implemented LANTERN's educator-controlled architecture in HelpMe for graduate nursing: a parent course governs four agents for research foundations, scholarly communication, grantsmanship, and academic navigation, each with its own prompt, knowledge base/RAG, settings, permissions, and chat behavior; validated by 107/107 integration tests and clean typechecks.
- Reviewed integration and release quality: a July audit surfaced risks across security, authorization, concurrency, and queues; submitted 124 reviews across 63 pull requests, reproducing failures and re-verifying fixes.

DxFactor

May 2025 – Aug 2025

Software Developer Intern

Gujarat, India

- Built a production AI Config Agent from scratch for a B2B gym-management platform, translating multi-sheet Excel onboarding data into dependent administrative operations through OpenAPI retrieval, authenticated tools, persistent state, validation, retries, run IDs, logging, and background execution.
- Created the runtime `get_modular_prompt` tool to load workflow-specific instructions only when needed, independently anticipating the modern agent-skills pattern while keeping the orchestration prompt small and task-specific.
- Reported production results: 100+ dependent calls across 120+ endpoints, about 90% lower onboarding time, and 50MB+ templates completed in under 30 minutes.

Canndi & Here and Now

July 2026

Independent Product Engineer

Kelowna, BC

- Built Canndi, a full Shopify Hydrogen e-commerce store with a 12-SKU catalog, accessible PDP/cart flows, SEO, and production-safe commerce integration; cut product media from roughly 62MB to 1.6MB and reached verified founder review.
- Designed and shipped Here and Now's six-page Astro/Cloudflare mental-health practice site and production Kids companion with an interactive breathing experience, accessible feeling check-in, 4-7-8 timer, parent guide, and stable QR route.

Research & Publications

First author – *Benchmarking and Mitigating Answer Leakage in LLM Tutoring Under Persistent Student Pressure*. WCCCE 2026; accepted and presented, with ACM publication in process. Built the open multi-agent AI Tutor Harness; supervision reduced automated-judge leakage from 27.0% to 17.8% in the 900-conversation study.

First author – *Evaluating Answer Leakage in Multi-Turn AI Tutoring for Computing Education*. SIGCSE Virtual 2026; accepted and forthcoming; camera-ready prepared. The larger study analyzed 8,538 automated-judge-labeled conversations across 1,423 questions, compared GPT- and Gemini-family tutors, and found supervisor review cut aggregate leakage from 12.9% to 2.7% (roughly 79%).

Education

University of British Columbia, Okanagan

2022 – 2026

B.Sc., Honours in Computer Science; Minor in Data Science; GPA: **4.33/4.33**; Honours Thesis: **95%**

Conferred May 14, 2026

University of California, Berkeley

Summer 2024

CS 161 Computer Security; CS 188 Artificial Intelligence

Berkeley, CA

Certifications

Anthropic

Claude Certified Developer – Foundations | Claude Certified Architect – Foundations

Skills

AI systems

Agent orchestration, tool calling, RAG, multi-agent evaluation, automated judges, observability, validation

Engineering

Python, TypeScript, Go, SQL; Django, FastAPI, React, Node.js, PostgreSQL, AWS, GitHub Actions