Vansh Sikka

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EXPERIENCE

American Express Global Business Travel (Egencia)

Chicago, IL · Jun 2023 — Present

Corporate travel platform · 2M+ travelers · 9,000+ client organizations · 60+ countries

Software Development Engineer II

May 2025 — Present

- **Sole engineer on a 20+ repo client program** Took a context-aware personalization program for **a top-five global technology company** from first product conversation to **on-time delivery** as its only engineer. Wrote the PRDs, tech specs, and alignment docs spanning **20+ repositories**; shipped its iOS and Android features with no prior Swift or Android experience.
- **3× delivery acceleration** Shipped the Cars/Ground and Train lines of business in **30 days against a 90-day estimate** by running Claude Code across coding, testing, and debugging, freeing two months of engineering capacity.
- **Agent skills adopted beyond my team** Built snyk-fix, which turns Snyk CLI findings into review-ready fix PRs, cutting actionable vulnerabilities **30%** on both services I own before two other teams adopted it. Published /service-cost-savings to the org's shared skills repo.
- **Infrastructure economics** Cut a core service's logging spend **50%** (roughly 18M log events a month) and right-sized Kubernetes across four services in 8 PRs with no OOMKills or regressions. The skill turns a 4 to 5 hour review into 50 minutes; a second team ran it independently across 17 services, and a fleet scan found **290 of 675 production services over-provisioned**.
- **Technical leadership** Day-to-day technical lead and the team's most experienced engineer. Reviews designs and pull requests for senior and principal engineers; gave formal demos of both skills beyond the team.
- **AI governance and standards** Drove adoption of CLAUDE.md standards with governance and PR assurances so AI-assisted changes clear the same bar as any other. Heaviest user of the internal agentic SDLC pilot, running it end to end on a live client program and feeding findings back before global launch. Anthropic Academy certified.

Software Development Engineer I

Jun 2023 — May 2025

- **Revenue-critical delivery** Reverse-engineered undocumented policy logic across four legacy services to ship the traveler-limit enforcement that **unblocked a major client's contract renewal**. Correct end to end on first deploy.
- **Distributed data architecture** Architected the event-driven ingestion path (Kinesis, RabbitMQ, MongoDB) behind the company's **first cross-region product**, cutting attendee manifest exports from **~2 minutes to 2–5 seconds**.
- **Performance engineering** Rebuilt the platform's core listing endpoint across Spring, Hibernate, and SQL, taking it from **15s to 0.75s (20×)**; halved acceptance-suite runtime (**60 → 32 min**) to unblock the deploy pipeline.
- **Production reliability** Deployed AI anomaly detection into the meetings domain with no vendor documentation or precedent, and stood up Datadog monitoring across the team's applications, moving from reactive triage to proactive detection.
- **Full-stack and cross-team delivery** Shipped the complete front end for a new hotels line of business across **four applications** and globalization refactors into four other teams' repositories. Designed an Engineering Review Board-approved fix closing a multi-year session-consistency defect; onboarded a new engineer to production in one week.

TECHNICAL

AI & Machine Learning	Large Language Models · Agent Development (Claude Code skills) · Prompt Engineering · AI Governance & Guardrails · Machine Learning · Deep Learning (PyTorch) · NLP
Data & Cloud	AWS (Kinesis, IAM, S3) · Kubernetes · RabbitMQ · Event-Driven Architecture · MongoDB · SQL · GraphQL · Datadog
Engineering	Python · Java · Spring / Hibernate · React · REST Microservices · Distributed Systems · System Design · CI/CD
Focus	Forward-Deployed Engineering · AI-Assisted Delivery · Solutions Architecture · Applied Machine Learning

EDUCATION

University of Pennsylvania

GPA 4.00 / 4.00 · 2025 — 2027

Master of Science in Engineering, Artificial Intelligence

Principles of Deep Learning · Machine Learning for Data Science · NLP · Algorithms for Big Data · Statistics for Data Science · Technology Ethics and Law

University of Illinois Urbana-Champaign

Dean's List · 2020 — 2024

Bachelor of Science, Statistics & Computer Science

Course Assistant, CS 125 / 126 / 222: hired, trained, and led 40+ course staff; design reviews for 400+ students.

Illinois Business Consulting, Consultant to Senior Consultant: Industry 4.0 strategy for Fortune 50 manufacturers.

Google Developer Student Club, Software Developer: COVID-19 exposure dashboards; web and Android projects.

EARLIER EXPERIENCE

BMO Financial Group Software Engineer Intern · 2022 Data-exposure detection automation, **+10%** security posture; **5,100 licenses** secured for an enterprise rollout.

Proven IT Emerging Technologies Intern · 2021 Python and PowerShell DevOps automation for **150+ internal users**; **+64%** asset inventory accuracy.

SiteInnovator Web Developer · 2019 Sites for **10+ clients** in WordPress and React; **+15%** client traffic from design and performance work.