

# Rishabh Pandey

(510)-646-5425 | [email.rishabhp@gmail.com](mailto:email.rishabhp@gmail.com) | [rishabhxpandey.com](http://rishabhxpandey.com) | [linkedin.com/in/pandey-rishabh/](https://linkedin.com/in/pandey-rishabh/)

## EDUCATION

### Purdue University

*B.S. in Computer Science*

**Dec 2024**

*West Lafayette, IN*

Relevant Coursework: Operating Systems, Computer Networks, Database Systems, Cloud Computing, AI/ML

Activities and Societies: Alpha Kappa Psi, ML@Purdue, PurdueTHINK, Intramural Soccer

## TECHNICAL SKILLS

**Languages:** Python, Java, SQL, C/C++ (Go, TypeScript/Node.js – familiar)

**Developer Tools:** Git, Unix/Linux, Docker, Kubernetes, Terraform, Azure DevOps, GitHub Actions, PyTest

**Cloud Platforms:** AWS (Developer Associate Certified), Azure, GCP

**Databases & Data Storage:** DynamoDB, MySQL, PostgreSQL, Redis, Snowflake, ADLS, FAISS

**AI & MLOps:** FastAPI, LangChain, OpenAI API, scikit-learn, vector search, evaluation/benchmarking

## EXPERIENCE

### Software Engineer | *Python, NodeJS, AWS, Terraform*

**Jan 2025 – Present**

*Geico*

*Remote*

- Built Python AWS Lambda services to normalize contact events, batch-write to DynamoDB, and fan-out via EventBridge with DLQs/backoff—processing **~350–500 events/min avg** (500k–700k/day); added structured CloudWatch metrics/dashboards.
- Shipped Amazon Connect queue observability: EventBridge-scheduled Lambda scans **~800–900 queues**, evaluates 30-min abandonment thresholds, and alerts via SNS + Slack webhooks; optimized with batch API calls to cut runtime **~120s → ~10s (~12x faster, ~92% reduction)** and added a DynamoDB “ignore list” to suppress noise.
- Refactored Terraform modules (Lambda, IAM, EventBridge) with least-privilege IAM, standardized alarms/DLQs/retries, and structured logging—reducing misconfig risk.
- Achieved **~90% PyTest coverage** (unit + integration) and standardized JSON logging + runbooks to accelerate incident triage.
- Contact flow instrumentation: Implementing Amazon Connect contact flows and a Lambda that checks DynamoDB state to route calls (e.g., voicemail fallback).
- Participated in AI Hackathon: Developed a RAG agent that maps natural-language intents to policy updates for a customer (leading a team of 7 people, ~36hrs)

### Software Development Intern | *Python, Docker, Kubernetes, Helm, Azure*

**Jun 2024 – Aug 2024**

*Geico*

*Remote*

- Deployed JupyterHub on AKS with Azure AD SSO/RBAC; integrated Spark + ADLS; onboarded **20+ users**, contributing to **~25% Snowflake cost reduction** ( $\approx$  **\$3M/yr** on **~\$12M** baseline) via lake-first analytics.
- Published custom Jupyter magics for one-click data access; enforced quotas/autoscaling to stabilize peak loads.

### Software Engineering Intern | *PL/SQL, REST APIs, Oracle*

**May 2023 – Aug 2023**

*Texas Instruments*

*Dallas, TX*

- Shipped Oracle APEX+PL/SQL app integrating 10Duke REST API; reduced license lookup from **4–6 hrs to ~3–5 sec (~99% decrease)** across **250+ products**; added audit logs and archival automation.

## PROJECTS

### LinkedIn Interview Agent | *FastAPI, React, GPT-4o, FAISS, [repo link](#)*

**2025**

- Agentic interview platform: Job Description + resume ingestion, semantic skill mapping (FAISS), adaptive question generation; instrumented **p50/p95/p99**, RPS, error rate, and \$/session via structured logs (Q-generation **~1.5–3s** p95; 5-Q session **\$0.02–\$0.04** on GPT-4o-mini).
- Future Plans: voice interview mode (WebRTC + streaming ASR/TTS)