Rishabh Pandey

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EDUCATION

Purdue University   **Dec 2024**
B.S. in Computer Science   *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 (~12× 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) with auditable decisions.
- 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** (≈ **$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)