Hannah Kim

Backend/ML Platform Engineer - Data-intensive systems, Python, and LLM applications

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SUMMARY

Backend engineer (8+ years) focused on platform services and data/ML infrastructure. Strong Python + SQL background, AWS experience, and a track record of shipping scalable internal platforms at top tech companies. Built multiple LLM-enabled tools using RAG and agent workflows with strong attention to evaluation and safety.

EXPERIENCE

Senior Software Engineer, Platform - Databricks
2021 - 2025 | San Francisco, CA

- Built backend services for cluster metadata and policy enforcement; improved p99 latencies via caching and query optimization.
- Designed ingestion + indexing pipelines for internal knowledge search over docs, tickets, and design notes; scaled to 50M+ artifacts.
- Shipped an LLM-based 'assistant for engineers' leveraging RAG; implemented evaluation datasets, prompt regression tests, and access controls.

Software Engineer, Data Platform - Meta
2017 - 2021 | Menlo Park, CA

- Developed data services supporting experimentation and analytics; optimized SQL workloads and built automated anomaly detection.
- Improved service reliability via traffic shadowing, canaries, and alert tuning.

SELECTED PROJECTS

Policy-aware RAG Service
2024 - Python, AWS, vector search, RBAC

- Implemented a retrieval layer that filters results by user/team permissions and document sensitivity labels before generation.
- Added observability for retrieval/generation, including latency breakdowns and redaction metrics.

SKILLS

Languages: Python, Java, SQL
Cloud: AWS (S3, RDS, IAM, CloudWatch), Kubernetes, Docker
Databases/Search: PostgreSQL, MySQL, Redis, OpenSearch
AI/ML: Embeddings, vector search, RAG, evaluation, guardrails
Engineering: API design, performance, reliability, incident response

EDUCATION

University of Michigan
MS, Computer Science | 2015 - 2017 | Ann Arbor, MI
Thesis: scalable indexing for semi-structured enterprise data.

University of Michigan
BS, Computer Science | 2011 - 2015 | Ann Arbor, MI