Oliver Nemec

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EXPERIENCE

Software Engineer — July 2024 - Present
Datadog — *New York, NY*

- Scaled an internal LLM assistant from 5 to 70+ teams and 1.5K users by launching self-service onboarding, introducing a unified engineering prompt, and reducing support requests about missing documents by 70%.
- Expanded ingestion and retrieval to more than 35K documents (25GB+) by implementing diff-based ingest, recursive delimiter splitting, and header-preserving chunking, while cutting end-to-end ingest latency from 15 minutes to 20 seconds.
- Improved platform performance and reliability by cutting CI/CD runtimes 50%, reducing data pipeline latency 97%, removing 10M+ noisy logs per day, and leading response to 9 production incidents with 0 recurrences and 70% fewer false positives.
- Delivered production-grade secure systems and observability by building a FedRAMP-ready Google Meet Slackbot and a FIPS-compliant CI/CD pipeline, and by shipping LLM observability features that deflected 100+ weekly support inquiries while representing Datadog at AWS Summit.
- Mentored an intern and a mid-level engineer, improved team onboarding through updated internal docs and Slack guidance, and supported Datadog's disability and neurodivergence guild to help improve accessibility across engineering teams.

Software Engineer Intern — May 2023 - Aug 2023
Datadog — *Boston, MA*

- Resolved technical debt, improving developer QoL for 3+ teams and achieving 99% AWS cost savings through workflow optimizations.
- Implemented static analysis in GitLab CI and Pydantic models for HTTP/API requests, reducing errors by 20% and data-validation latency by 60%.

Software Engineer Co-op — May 2022 - Dec 2022
PathAI — *Boston, MA*

- Built an ETL pipeline using Kubernetes and Apache Airflow, migrating data from 5+ sources into Snowflake, enabling unified data access and analytics for cross-functional teams.
- Designed a custom Helm chart for Airflow on EKS and integrated REST APIs, ensuring scalable and reliable data orchestration.

EDUCATION

Northeastern University — Boston, MA
B.S. Computer Science (ML/AI Concentration) — *Jan 2021 - May 2024*

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, Terraform
Developer Tools: Git, CI/CD, AWS, Kubernetes, Helm, Docker
AI/ML Tools: OpenAI API (Chat, Embedding Models), LangChain, Ollama
Databases: SQL (Postgres/pgvector, MySQL, SQLite), NoSQL (DynamoDB), Data Warehouses (Snowflake)

PROJECTS

Thermal Printer | Github — Sept 2023 - Aug 2024

- Built a lightweight thermal printing tool that renders programmatically generated HTML in a headless Playwright session and converts the output to PNG for direct ESC POS printing with minimal dependencies.
- Added Sudoku and weather print templates and exposed a simple CLI for generating and printing formatted outputs.