

# Oliver Nemec

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## EDUCATION

### Northeastern University

*B.S. in Computer Science, Concentration in ML/AI*

Boston, MA

*Jan 2021 – May 2024*

## EXPERIENCE

### Software Engineer

July 2024 – Present

*Datadog*

*New York, NY*

- Co-maintained and enhanced a personalized LLM chatbot, leveraging ingested data from Confluence, Google Docs, and Freshservice, and building support for new formats (e.g., PDFs), resulting in 1,000+ messages processed monthly and adoption across 10+ teams.
- Collaborated with 20+ teams to refine chatbot performance, improving 60% in-scope question accuracy and reducing manual support requests by 40%.
- Enhanced chatbot transparency by implementing traces for document retrieval and query reformulation, improving 27% subject matter expert approval rates.
- Managed OpenAI embeddings in a pgvector database, ensuring efficient storage and retrieval of vectorized data for semantic search.
- Developed an automated CI job to provide feedback on user prompts, reducing manual review overhead by 50%.

### 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.

### Cloud Engineer Intern

Jan 2021 – Aug 2021

*Vestmark*

*Wakefield, MA*

- Developed and maintained Terraform code for 5+ clients, reducing infrastructure deployment time by 80% and improving code quality through linting standards.

## 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

### Google Meet Slackbot | *Datadog*

Jan 2025 – Present

- Built a Slackbot using Slack's v2 OAuth2 for authentication, storing installation and state data in S3, and integrating with Google's API to generate Google Meet URLs.
- Designed a user-friendly '/meet' command that returns a Markdown formatted message with the meeting link and ID, improving team productivity.
- Ensured FedRAMP compliance and support for both commercial and government deployments of Slack, meeting strict security and regulatory requirements.

### Cloudmapper | *Vestmark Inc.*

Jul 2021 – Jul 2021

- Automated AWS discovery by forking and maintaining a Python script, reducing manual effort and improving infrastructure visibility.