

# Oliver Nemec

[oliver@onemec.org](mailto:oliver@onemec.org) | [linkedin.com/in/onemec](https://linkedin.com/in/onemec) | [github.com/onemec](https://github.com/onemec)

## EDUCATION

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### Northeastern University

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

Boston, MA

*Jan 2021 – May 2024*

## EXPERIENCE

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### Software Engineer Intern

May 2023 – Aug 2023

*Datadog*

*Boston, MA*

- Spearheaded resolution of unaddressed technical debt by identifying high-impact changes and taking ownership of the implementation resulting in significantly increased developer QoL for 3+ teams.
- Redesigned my intern project into a one-line PR by integrating it with the team's existing workflows resulting in over 99% savings in AWS costs alongside easier future maintenance.
- Collaborated with several teams to implement static analysis functionality to our Gitlab CI.
- Implemented best practices using Pydantic's latest models in handling HTTP/API requests and AWS lambdas.
- Explored related open-source projects to evaluate comparable implementations (changelog generation, static analysis, and more).

### Software Engineer Co-op

May 2022 – Dec 2022

*PathAI*

*Boston, MA*

- Enabled de-centralized scalable deployments of Apache Airflow across EKS nodes by designing a custom Helm chart connected to shared AWS resources.
- Simplified data ingestion consolidating over five sources through custom-built Airflow Operators.
- Implemented best practices resulting in over 50 percent code reduction by engaging with Airflow developers.
- Integrated REST APIs for existing resources into Airflow workflows, enabling unified data access and monitoring.
- Enabled confidence in pipeline integrity by identifying critical bottlenecks and ensuring destination data validity through design decisions.

### Cloud Engineer Intern

Jan 2021 – Aug 2021

*Vestmark*

*Wakefield, MA*

- Eliminated backlogged infrastructure development by developing and maintaining Terraform code for 5+ clients.
- Implemented standard development practices utilizing Git version control, pull requests, and linting standards.
- Identified code issues and inefficiencies, aiding 3+ teams by proposing solutions and following through with their implementation.

## TECHNICAL SKILLS

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**Languages:** Python, Java, C/C++, SQL, Terraform

**Developer Tools:** Git, CI/CD, AWS, Kubernetes, Helm, Docker

## PROJECTS

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### OpenOversight | *Lucy Parsons Labs*

Jan 2023 – May 2023

- Assist in general project development, including migrating Python dependencies to Poetry.

### Cloudmapper | *Vestmark Inc.*

Jul 2021 – Jul 2021

- Eliminated centralization of knowledge on AWS mapping by forking and maintaining a Python script to automate AWS discovery at Vestmark.

### Trail Maintainer | *The Andover Village Improvement Society*

May 2021 – Sep 2021

- Rehabilitated uncared land by performing plant and shrub removal on over 0.5 acres, including Honeysuckle, allowing native plants to regrow.

### Food Pantry Volunteer | *Catholic Charities of Boston*

Sep 2020 – Dec 2020

- Improved access to over 50% more clients per day by efficiently performing day-to-day operations, including packing food, distributing boxes, and reorganizing inventory.