Oliver Nemec

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EDUCATION

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

EXPERIENCE

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

- Spearheaded resolution of unaddressed technical debt by identifying high-impact changes and providing ownership of the implementation resulting in significantly increased developer QoL for 3+ teams.
- Redesigned my intern project into a one-line PR, by integrating with the team's existing workflows resulting in over 99% savings in AWS costs alongside easier future maintenance.
- Collaborated with several other teams to help 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, etc.).

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

- Enabled decentralized scalable deployments of Apache Airflow across EKS nodes by designing a custom Helm chart connected to shared AWS resources.
- Simplified data ingestion consolidating over 5 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 key 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

Languages: Python, Java, C/C++, SQL, Terraform
Developer Tools: Git, CI/CD, AWS, Kubernetes, Helm, Docker

PROJECTS

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.