

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 Co-op

PathAI

May 2022 – Dec 2022

Boston, MA

- Designed and created environment-agnostic Helm charts to deploy Apache Airflow to different Kubernetes clusters ensuring future-proof scalability and extensibility.
- Orchestrated the creation and integration between AWS resources (EKS, EFS, S3, Cloudformation) and existing infrastructure in Bitnami Vault and Snowflake DB to facilitate the company's ETL.
- Evaluated over five options in-depth with test deployments and feature comparisons to ensure the company's needs and possible future goals are best met.
- Implemented test-driven development while creating Python DAG pipelines and SQL view definitions through self-proposed Gitlab CI tooling and unit testing ensuring consistent code quality.
- Integrated REST APIs for existing resources into Airflow workflows enabling unified data access and monitoring.
- Proposed possible implementations to validate data integrity, ensuring its validity and enabling confident business insights.

Cloud Engineer Intern

Vestmark

Jan. 2021 – Aug. 2021

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.

Systems Engineer Intern

Vestmark

Jun. 2017 – Mar. 2020

Wakefield, MA

- Diagnosed and mitigated over 80% of frontline issues by constructing and testing numerous scripts.
- Resolved over 90% of endpoint communication issues by redeploying and transitioning existing antivirus infrastructure.

TECHNICAL SKILLS

Languages: Python, Java, C/C++, SQL, Troposphere, Terraform, Bash, Powershell

Developer Tools: Git, Gitlab CI/CD, AWS, Kubernetes, Helm, Docker, PyCharm, Jira, Test-driven Development

PROJECTS

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 for 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.

Research Assistant | *University of Massachusetts*

Sep. 2019 – Dec. 2019

- Revamped NoteAid's NLP health record software through 10+ client UX interviews relaying feedback to developers.