Erik Overdahl

St. Paul, MN | erik.overdahl@gmail.com | +1 (260) 437-0551
GitHub: erik-overdahl | LinkedIn: erik-overdahl

Skills/Technologies

Proficient Java, Go, Python, Bash, SQL, Cypher, Postgresql, Neo4j, SQlite, Docker, Git, Linux (Unix), Ansible, VMWare, Spring Boot

Exposure Elasticsearch, Logstash, Google Cloud Platform (GCP), Amazon Web Services (AWS), Redis, Nagios, Apache Kafka, Avro

Work Experience

WiseTech Global

DevOps Engineer **Nov 2021 – Oct 2022**

- Automated all infrastructure deployment using Ansible and Jenkins, reducing server provisioning time by 75% compared to manual process: automated virtual machine building/deployment in VMWare Vsphere; app server provisioning; load balancer routing and logging configuration; deployment of ELK Stack and Nagios monitoring tools; deployment of Redis for per-instance and shared caching; management of Jenkins pipelines and plugins
- Created tests for infrastructure deployment using Molecule, speeding up infrastructure automation development by 50%
- Maintained a complex ETL data pipeline capable of handling millions of events per minute using Kafka, ElasticSearch, Google BigQuery, and Apache Airflow
- Automated application of security patches by using Python to pull data from Tenable and update relevant packages using Ansible; cut average response time for security vulnerability tickets from 1 week to 1 hour

Software Developer **July 2019 – Nov 2021**

- Led research project leveraging graph database (Neo4j) for storage/retrieval of complex shipping route and pricing information; proof-of-concept achieved 14x reduction in time to export 1 million end-to-end shipping rates with pricing rules applied compared to existing codebase
- Refactored legacy codebase using Java Spring Boot; inverted flow of control, allowing for integration of new data backends to feed existing pricing rules engine and for the creation of modular tests

UNC Eshelman School of Pharmacy Molecular Modeling Lab

Research Assistant **June 2018 – July 2019**

- Collaborated with computational chemists to develop pipelines for text extraction and pharmaceutical machine learning models for predicting chemical activity using Python.
- Extracted and standardized toxicological data from more than 50,000 unstructured European Chemical Agency reports for use in model training.
- Developed several unique data cleaning pipelines that collected and collated data across thousands of diverse databases using Python, SQL, and web scraping.

Education

Bradfield School of Computer Science

Computer Science Intensive **Aug 2021 – Aug 2022**

St. Olaf College

BA in Economics and Mathematics with Statistics concentration **2014 – 2018**