Erik Overdahl

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

Work Experience

WiseTech Global

DevOps Engineer **Nov 2021 – Oct 2022**

- Automated all infrastructure deployment by writing Ansible roles: building virtual machines in VMWare VSphere; provisioning app servers; configuring load balancers; setting up an Elasticsearch-Logstash-Kibana monitoring stack; establishing Redis instances for per-service and shared caching; and managing Jenkins.
- Maintained a complex ETL data pipeline capable of handling millions of events per minute using Kafka, ElasticSearch, Google BigQuery, and Apache Airflow.
- Automated pulling security vulnerability data from Tenable and applying patches to servers using Ansible and Python.
- Set up Nagios monitoring checks for critical systems, e.g. health of disaster recovery database failovers

Software Developer **July 2019 – Nov 2021**

- Led development and testing for text extraction tool for shipping industry, including extensive development with both relational (Postgres) and graph (Neo4j) databases, which reduced time to export of millions of end-to-end freight shipping rates by a factor of 14.
- Built microservices responsible for processing customer data using Java Spring Boot.

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**

Projects

- A full key-value store with custom SSTable file format
- A distributed key-value store
- Implementation of a reliable data transfer protocol built on top of UDP
- Built a DNS client and an HTTP proxy server using Unix sockets
- Improved performance of compute-heavy code by improving cache locality

St. Olaf College

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

Member of saxophone studio and Norseman Band

Skills/Technologies

Languages Java, Go, Python, Bash, SQL, Cypher

Tools Unix, Docker, Git, Postgres, Neo4j, Redis, Ansible, Nagios, Apache Kafka, Avro, Elasticsearch, Logstash