

My Full Name

My Phone Number - my.email.address@gmail.com

Experience

Amberflo - Backend Engineer - Santa Clara, California Jan 2024 - April 2024

- Enhanced ingestion service with metadata in meter events and built a querying tool that boosted accuracy in usage-based pricing by 20% for over 100,000 meter API requests daily.
- Implemented scheduled functionality for account-to-business mapping in S3 buckets using AWS Lambda and CloudFormation, cutting querying time by 35% through efficient denormalization.

Angi - Software Engineer - New York, NY Sept 2022 - Dec 2023

- Participated in merging of HomeAdvisor (Java) and Angie's List (Scala) stack by creating new API endpoints on Angie's List stack such as search, login and logout to interact with unified Keycloak API and extract user data from unified Postgres database using data from both stacks.
- Implemented OIDC-compliant functionality into Angie's List Scala stack by implementing login functionality with Keycloak which would be quietly deployed through features flags and A/B testing.
- Assisted in migration from on-prem data centers to Kubernetes cluster (on EKS) and resolved issues with session stability on clusters then updated ETL pipelines to account for changes in workflow.

University of Toronto - Bioinformatics Programmer - Toronto, ON Jan 2021 - Feb 2022

- Implemented machine learning algorithm (written in C++) into open-source OpenMS library for determining deuteration levels in isotopic distributions and presented research findings to professors.
- Wrote high-performance computing script with Python to run a machine learning pipeline on large biological datasets with distributed computation on a remote computing cluster with Docker images.

Bioinformatics Solutions Inc. - Software Engineer - Waterloo, ON Jan 2020 - Dec 2020

- Implemented functionality and UI for separation of ion mobilities (written in Java) during processing of biological data thus increasing sensitivity and accuracy of peptide/protein identification from data.

Shopify - Software Engineer Intern - Toronto, ON Jan 2019 - Apr 2019

- Updated Kafka streams processing to improve memory allocation, increasing overall performance and reducing memory usage by over 50%.
- Implemented an automated cleanup process for failed previous Kafka extraction jobs to reduce manual tasks for on-call.
- Created Spark jobs to delete stale, sensitive data from Kafka topics on a daily basis.

Lumentum - Software Engineer Intern - Ottawa, ON May 2018 - Aug 2018

- Implemented optimization algorithms into existing optical device software to calibrate hardware to run more efficiently.
- Performed statistical analysis on optical device performance with Excel and SAS.

Projects

Video to MP3 Converter

- Python Django app with services for authentication, storage, conversion and emailing converted files.
- Services run on K8s cluster with EKS, AWS SQS for passing data and AWS S3 for database storage.
- Integrated transcriptions and summaries and implemented a RAG chatbot to ask questions.

Skills

Languages: Python, Java, C++, Scala, SQL, BASH, TypeScript/JavaScript

Tools: FastAPI, AWS, Kubernetes, Docker, Postgres, React, Node.js, API Design, LLMs

Education

University of Waterloo - Bachelor of Math

Sept 2014 - Dec 2019

- Double majored in Computer Science and Pure Mathematics (dean's honour list for GPA over 87%).