

Raynor Elgie

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WORK EXPERIENCE

Tulip Interfaces

May 2022 – Present

Software Engineer (Infra & Data Team, Distributed Systems Team)

Boston, MA

- Created Typescript microservice for forwarding 1000+ platform usage events per second to AWS SQS
- Penned design doc for and developed Go-based distributed system testing and monitoring framework
- Built system to populate over 8000 Salesforce objects with live data, informing allocation of service & sales staff time
- Developed 6+ data pipelines using Python & Airflow, populating 10s of millions of data-points in our data warehouse for use by devs, commercial staff, and executives
- Wrote tool to generate and run dependency lists for SQL scripts, reducing necessary dev interaction for tests by ~90%
- Created data dashboards using React, SQL and Flask, supporting data stakeholders

Workplace Safety and Insurance Board

May 2021 - December 2021

Analytics Associate (BI ETL Dev)

Toronto, ON

- Improved script efficiency with faster data transformation methods, saving >600 hours of run-time
- Wrote a new ETL process for a daily report using R, tracking more than 10,000 monthly activities
- Introduced new organization conventions to several legacy scripts, allowing faster development
- Led demo meetings, collecting input and questions from managers of other departments

EDUCATION

Toronto Metropolitan University (Formerly Ryerson)

December 2023 (Expected)

BSc. Computer Science - 4.06/4.33 GPA

Toronto, ON

PROJECTS

[Lenz](#): Observability & Analytics Platform SAAS

- Observability platform that can instrument any software in minutes, capable of millions of recordings
- Makes no distinction between logs and metrics - born from my frustration with Loki & Prometheus
- Built fully-customizable user dashboard & unified data query system using Next.JS & Typescript APIs
- Built queued, high volume, & authenticated serverless ingester API using AWS cloud & Golang

[WikiPredict](#): Online NLP/ML Tone Predictor (Jupyter, Django)

- Trained an NLP machine learning model using Python, Jupyter, and Scikit-Learn
- Used soft-voting classifier with 4 different classifier models to predict probability of encyclopedic tone
- Deployed model using Django to allow users to evaluate text for the encyclopedic tone

SKILLS & INTERESTS

- **Languages:** Python, Rust, PHP, R, Java, C/C++, MySQL, Typescript, Javascript, Go
- **Technologies / Methodologies:** Jupyter, Django, Git, Linux, Scikit-Learn, REST, RStudio, Airflow, Flask, AWS (S3, Redshift, Lambda, SQS) Terraform, Tensorflow, Keras, Github Actions, Next.JS

WRITE-UPS

[Speed up Python using Rust & CFFI](#): Covers Python/Rust FFI, slices from memory pointers, etc.

[Development of a Natural Language Article Evaluation Pipeline](#): Paper written with 2 peers