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RELEVANT EXPERIENCE

Software Engineer | Verkada San Francisco, Sep 2022 - Present

- Led year-long integration project with Apple and built complete billing and reporting systems, opening a new revenue stream with \$50k in bookings within 2 months of feature release
- Took ownership of an event processing system that handles 40M+ daily events, including adding observability, improving performance by over 50%, and making it resilient to external outages
- Improved the developer and on-call experience, including adopting deployment automations, optimizing build times saving hours every week, and having better crisis handling processes
- Improved service reliability in a multi-cluster Kubernetes environment through performance analysis, memory leak investigations, and adding observability metrics for monitoring

Software Engineering Intern | Global Trading Systems (GTS) New York City, Sep - Dec 2021

- Prototyped a scalable real-time log processing pipeline using Apache Spark that parses 2B+ events daily, enabling analysts to track progress on trading orders across 20+ exchanges

Software Engineering Intern | IBM Canada Toronto, Sep - Dec 2020

- Setup CI/CD using Travis CI and Docker, helping internal business analyst teams iterate faster
- Contributed to an SSO Auth project to fix an issue with some enterprise IdP integrations
- Drafted architecture proposals for event-driven systems using Kafka and gRPC interfaces

Data Engineering Intern | Loblaw Digital Toronto, Jan - Apr 2020

- Led R&D for a Data Governance integration to proactively validate data in BigQuery, reducing the need for data analysts to raise issues about the datasets, leading to less workflow disruptions
- Migrated pipeline scheduling to Airflow, improving the system's reliability and documentation
- Developed ETL data pipelines in Python in collaboration with analysts to deliver business insights

PROJECTS

Anagram Madness | Golang, C#

- Online multiplayer word game consisting of a websocket server and Unity-based web interface
- Automated CI/CD with GitHub Workflows, including cross-repo triggers for fast deployments

Link Vis | Golang, ReactJS

- Multi-threaded URL web crawler with an interactive graph visualization front-end interface

SKILLS

- **Languages:** Python, Golang, JavaScript, Java, C/C++, Rust
- **Technologies:** Kubernetes, AWS/GCP, Docker, Terraform, Databases, Data Streaming, CI/CD

EDUCATION

BASc in Computer Engineering | University of Waterloo Sep 2017 - May 2022

- **Relevant courses:** Distributed Computing, Concurrency, Security, Compilers, Networking, OS
- Graduated With Distinction, Dean's Honours List