BANIN ABRAR

Prospective software engineer with a strong interest in Data Engineering and Distributed Systems with experience in building data warehouses and monitoring systems.

S babrar.xyz — ■ babrar@uwaterloo.ca — the in/baninabrar — S babrar

Skills

- · Languages & Frameworks: Python, Rust, C/C++, Golang, TypeScript, Java, SQL, Perl; React.js, Django, GraphQL
- · Tools: Kubernetes, Terraform, AWS, GCP, gRPC / Thrift, Apache Kafka, Spark, Prestodb, Elasticsearch, dbt, PostgreSQL

EDUCATION

University of Waterloo

Class of 2023

Bachelor of Applied Science in Computer Engineering

Courses: Programming for Performance in Rust, Distributed Systems, Computer Networks & Security, Operating Systems, Compilers, Database Systems, Software Design and Architectures, Data Structures and Algorithms

WORK EXPERIENCE

Software Engineering Intern, Full-Stack

Sep 2022 – Dec 2022

PlayStation, San Diego, CA

- · Developed a single-page application in React to enable easy DB management, improving productivity for 30+ engineers
- · Built a flexible Kubernetes controller to provision database instances on-demand, saving the team ~50 hours/month
- · Streamlined access to critical information by implementing fuzzy text search for documents hosted on docusaurus

Software Engineering Co-op, Database

Jan 2022 – Apr 2022

Arctic Wolf, Waterloo, ON

- Created an efficient data monitoring system in Go which detected and resolved under-sharded indices in Elasticsearch, resulting in reduced CPU usage during peak hours and a **50**% decrease in performance-related alerts.
- · Automated repetitive tasks related to the removal of inactive records and database settings, reducing manual workload

Analytics Engineering Intern, Business Insights

Jan 2021 - Aug 2021

Sheertex. Montreal, QC

- · Spearheaded the implementation of a new high-performance data stack using <u>Snowflake</u> and <u>dbt</u>, saving data analysts over **10 hours/week**, eliminating all data errors, and providing more accurate insights to stakeholders.
- · Consolidated e-commerce data across multiple sources to serve as a foundation for future data-related initiatives

Software Engineering Intern, Cost Optimization

May 2020 – Aug 2020

Loblaw Digital, Toronto, ON

Successfully migrated logging infrastructure from Splunk to Google's Stackdriver platform using Terraform and BigQuery SQL scripts, achieving over \$50K in annual savings, while incurring minimal performance penalties.

Data Engineering Co-op, Data Ingestion

May 2019 - Aug 2019

FLIR Systems, Waterloo, ON

Architected a data lake setup using Presto to address rapidly evolving schema, reducing latency on reads from S3 by 60%

Software Developer Intern, Full-Stack

Sept 2018 – Dec 2018

JANA Solutions, Aurora, ON

· Shipped a full-stack application in Diango to serve the company's core statistical modelling software to 10+ clients

OTHER EXPERIENCE & PROJECTS

Waterloop Student Design Team, University of Waterloo

Revamped a static web page into a dynamic <u>MERN</u> stack-based website, enriched with new features and functionalities focused on enhancing user experience and streamlining deployment through containerization of the entire platform.

UW Midnight Sun - Solar Race Car, University of Waterloo

· Conducted research on optimization problems related to the practical application of solar cell modules on a race car

FastOLAP, babrar/fastolap ?

· An open-source fork of AWS Athena for performing fast analytic SQL queries on large datasets hosted on Amazon S3