Banin Abrar

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SKILLS

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

EDUCATION

University of Waterloo   Class of 2023
Bachelor of Applied Science in Computer Engineering

- **Relevant 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

Sony PlayStation   San Diego, CA
Software Engineering Intern   *Sep 2022 – Dec 2022*

- Engineered a solution for a critical bottleneck in the replication of PlayStation Plus data for **50 million** users
- Developed a Ceph-powered K8s operator, swiftly provisioning test environments with prod data to solve said issue
- Streamlined workflow for 30+ engineers by creating a React frontend for existing database configuration tools

Arctic Wolf   Waterloo, ON
Software Developer Co-op, Infrastructure   *Jan 2022 – Apr 2022*

- Achieved a **50%** reduction in AWS performance alerts for ElasticSearch and thwarted high CPU loads during peak hours
- Architected and deployed a Go-based watchdog, proactively managing index-sharding to attain said performance goal
- Enhanced the monitoring of microservices by integrating Datadog metrics into Grafana, driving faster incident responses

Sheertex   Montreal, QC
Software Engineering Co-op, Business Intelligence   *Jan 2021 – Aug 2021*

- Spearheaded the implementation of a new and modern ELT process using Snowflake, dbt and Fivetran, delivering significantly more accurate KPIs to stakeholders and saving data analysts over **10 hours/week** on BI workflows
- Streamlined the access to inventory data by using Google Cloud Functions to load data into the main data warehouse

Loblaw Digital   Toronto, ON
Site Reliability Engineer   *May 2020 – Aug 2020*

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

FLIR Systems   Waterloo, ON
Tools Developer Co-op   *May 2019 – Aug 2019*

- Eliminated a major performance slowdown when querying S3 by designing a data stack using Spark, Presto and Hive

JANA Solutions   Aurora, ON
Junior Software Developer   *Sept 2018 – Dec 2018*

- Delivered a comprehensive full-stack application for statistical modelling written in Django and React to **10+** clients

OTHER EXPERIENCE & PROJECTS

Waterloop Student Design Team (*TypeScript, React, MongoDB*)   *University of Waterloo*

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

1nil (*Python, gRPC, PostgreSQL*)   *fydp-1nil/backend* ⌂

- Open-source video streaming and data analysis platform for minor and amateur sports leagues.

FastOLAP (*PrestoDB, Hive, Redash*)   *babrar/fastolap* ⌂

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