Banin Abrar

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SKILLS

- **Languages & Frameworks:** Python, Rust, C/C++, Golang, TypeScript, Java, SQL; React, Node, Django, GraphQL
- **Tools:** Kubernetes, Terraform, AWS, GCP, gRPC, 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 *(Rust)*, Distributed Systems, 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   *2022*

- Resolved critical performance bottleneck in the replication of PlayStation Plus data for **50 million** users by developing a Ceph-powered Kubernetes operator to rapidly provision test environments with production data
- Enhanced workflow efficiency for **30+** engineers by creating a React front-end for database configuration tools

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

- Contributed to an initiative to reduce AWS performance alerts for ElasticSearch and prevent high CPU loads during peak hours by creating a Go-based watchdog to optimize index-sharding
- Developed Rundeck scripts to automate database record management, significantly reducing developer workload

Sheertex   Montreal, QC
Analytics Engineer, Customer Insights   *2021*

- Created a modern ELT process using Snowflake, dbt and Fivetran to accurately track customer behaviour, delivering greatly improved sales insights to stakeholders, and saving **20,000 CAD** in annual inventory costs
- Setup CI/CD pipelines using GitHub Actions to automate SQL transformations for cleaning, merging, and modeling e-commerce data from various sources, saving data analysts over **10 hours** per week in BI workflows

Loblaw Digital   Toronto, ON
Site Reliability Engineer   *2020*

- Successfully migrated logging infrastructure from Splunk to Google's Stackdriver platform using Terraform and BigQuery SQL scripts, netting over **50,000 CAD** in annual savings, while incurring minimal performance penalties
- Developed an internal library for Google PubSub to seamlessly produce and consume data in a specialized format

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

- Architected a performant data stack using Apache Spark and Hive to speed up data retrieval from AWS S3 by **60%**

JANA Solutions   Aurora, ON
Junior Software Developer   *2018*

- Delivered a comprehensive full-stack application written in Django and React for statistical modelling 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 website with enhanced features, optimizing user experience

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