Banin Abrar

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Summary

· Languages: Python, C/C++, Rust, Go, Java, JavaScript, TypeScript, Perl, SQL, Verilog, Bash
· Tools: AWS, React, Kubernetes, dbt, Presto, Fivetran, Docker, Elasticsearch, Postgres, MongoDB

Experience

Sony PlayStation   *Sep − Dec '22*
Software Engineering Intern (Infrastructure)   *San Diego, CA*

· Wrote a single-page application in React JS for database management that is used by **30+** engineers
· Created an extensible Kubernetes controller to create and manage multi-type database instances
· Implemented fuzzy text search features for markdown documents on docusaurus

Arctic Wolf   *Jan − Apr '22*
Software Engineering Intern (Database)   *Waterloo, ON*

· Constructed a data monitoring system in Go to preemptively detect under-sharded indices in Elasticsearch which reduced CPU usage by **75%** under burst load scenarios
· Wrote Python scripts to automate tasks related to database configuration and data manipulation

Sheertex   *Jan − Apr '21*
Software Engineering Intern (Analytics)   *Montreal, QC*

· Implemented a new data stack using Snowflake and dbt to greatly accelerate analytics workflows
· Defined data transformations to clean, merge and model e-commerce data across multiple sources improving BI query response times by **70%**

Loblaw Digital   *May − Aug '20*
Software Engineering Intern (Billing Optimization)   *Toronto, ON*

· Built internal tools to assist Site Reliability Engineering teams with billing optimization in GCP
· Saved **$50,000** annually by writing Terraform and BigQuery SQL scripts as a part of an SRE initiative to migrate logging infrastructure from Splunk to Google's Stackdriver

FLIR (Aeryon Labs)   *May − Aug '19*
Software Engineering Intern (Data Infrastructure)   *Waterloo, ON*

· Architected a data warehouse setup using Presto that reduced latency on reads from S3 by **60%**

JANA Solutions   *Sept − Dec '18*
Software Engineering Intern (Core)   *Aurora, ON*

· Built a data analytics backend in Django for the company's core probabilistic modelling software.

Projects

FastOLAP   *babrar/fastolap*

· A highly performant data stack for fast analytic SQL queries on large datasets in Amazon S3

Education

University of Waterloo   *Class of 2023 (expected)*
Candidate for Honours Bachelor of Applied Science in Computer Engineering

· President's Scholarship of Distinction for having more than 95% admission average