BANIN ABRAR

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SUMMARY

- Languages: Python, C/C++, Go, Java, JavaScript, TypeScript, Perl, SQL, Verilog, Bash
- Tools: AWS, Elasticsearch, dbt, k8s, Docker, Postgres, MongoDB, Postman, Fivetran, Vim

EXPERIENCE

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

- Built 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%**.
- Created data ingestion pipelines by writing data connectors for Fivetran in Python.

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** anually by writing Terraform and BigQuery SQL scripts as a part of an SRE initiative to migrate logging infrastructure from Splunk to Google's Stackdriver.

Teledyne 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*

OTHER EXPERIENCE

Waterloop Student Design Team

- Migrated a static website onto the MERN stack complete with new features and functionalities.

PROJECTS

FastOLAP *babrar/fastolap*

- A highly performant data stack for producing visualisations from large datasets in S3.

LTor *babrar/ltor*

- Lightweight BitTorrent client that uses WebRTC and UDP trackers for P2P file transfers.

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.