

# BANIN ABRAR

🌐 babrar.xyz — ✉ babrar@uwaterloo.ca — 🌐 in/baninabrar — 🌐 babrar

## 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 docsaurus

### 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