

Skills

- Strong programming skills in Kotlin/Java, and Golang
- Experienced with Vert.x, AWS, gRPC, Rest, Docker, Kubernetes, Terraform, Postgres, and Redis
- Knowledgeable of key-value stores such as RockDB, XodusDB, and LMDB, object storage systems such as S3, and vector databases such as PG Vector and In-Memory HNSW
- Understanding of observability using metrics [Prometheus], distributed tracing [Jaeger], and log aggregation [Loki/ELK]
- Comfortable with transport protocols like TCP, HTTP, WebSocket, and UDP

Experience

Senior Software Developer – Database – Tanium

[April 2024 – Present]

Senior Software Developer – Database – TraceLink

[October 2021 – April 2024]

- Built a query tracking and analysis sub-component to aid in identifying slow read queries
- Developed service discovery and clustering mechanism to automatically cluster Kubernetes pods as raft nodes
- Improved read query performance by batching and fetching keys in parallel from RocksDB
- Designed an experimental query engine using BitSets to improve predicate matching performance
- Introduced various convenience HTTP endpoints to aid in debugging and increase system visibility

Software Developer - DevOps – Miovision

[December 2020 – October 2021]

- Developed lambda functions in Golang to receive webhooks and terminate long running EC2 instances
- Setup multiple CI/CD pipelines using GitHub Actions
- Configured AWS infrastructure using Terraform

Software Developer - Backend – TextNow

[May 2018 – December 2020]

- Built a high throughput service using gRPC and Golang to persist internal events in Protobuf format to Kafka
- Developed a low latency service to serve as TextNow's Phonebook using AWS DynamoDB and Golang
- Designed a JWT based Authentication service to be used with an API gateway

Education

Master of Computer Science - Wilfrid Laurier University

Bachelor of Computer Science and Accounting and Finance - University of Waterloo