

KUMAR MANASVI

Canadian Citizen

@ kumarmanasvi30@gmail.com

☎ +1 5197215253

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EDUCATION

University of Waterloo
Bachelor of Computer Science

Waterloo, ON
Sep. 2014 – Aug. 2019

Courses

User Interfaces, Database Management, Computer Graphics, Computer Vision, Artificial Intelligence, Machine Learning

SKILLS

- **Programming Languages:** Go, C++, Python, SQL, Java, React-Native, NodeJs
- **Databases & Storage:** Redis, PostgreSQL, DB2, MongoDB, Hadoop, Kafka, Zookeeper
- **DevOps & CI/CD:** GitHub, Azure Repos, Docker
- **APIs & Libraries:** RESTful APIs, Stripe Payment System, JMX, D3
- **Cloud Platforms:** AWS (CloudFront, Lambda, ECS, S3, Fargate), Google Firebase
- **Security:** SSL/TLS, CA Certificates, OAuth2, JWT Token

EXPERIENCE

CIBC **Application Developer (Golang/C++)** Toronto 📅 Aug 2022 – Present

- Led the migration of **4.5M+** records from Oracle to DB2, reducing production downtime by **71%** (12h 38m → 3h 20m) through parallelized bulk inserts with goroutines and caching, enabling clean and secure decommissioning of legacy infrastructure.
- Secured Golang-based transaction services by implementing **2-way SSL** for external APIs and **JWT/1-way SSL** for internal traffic, hardening authentication and ensuring compliance for CIBC's Payment Hub.
- Architected a centralized error-routing microservice using goroutines and **IBM MQ** to detect, monitor, and alert on Investor's Edge transaction failures in real-time, reducing debugging time and improving monitoring.
- Improved Trade Booking API performance by **60%** via goroutine-based parallelism and bulk inserts. Reduced code smells by **80%** (30% → 6%) through review-driven refactoring. Enabled stable throughput of 7+ transactions every 10 seconds under peak load.
- Redesigned bulk reconciliation workflow between CIBC and VISA, achieving a **99.8%** success rate and reducing transaction failure resolution time from 5 days to under 24 hours.

Steer Tech Inc **Software Developer** Toronto 📅 Aug 2020 – May 2022

- Increased user retention by **20%** in 1 year for 5,000+ users by integrating Firebase OAuth2 authentication for seamless SSO based authentication.
- Reduced HiQ gaming app's data access time by **90%** via Redis caching on AWS CloudFront, seamlessly handling traffic spikes from **250K+** concurrent users worldwide.
- Built a scalable in-app messaging microservice (Golang, Node.js, PostgreSQL, MongoDB), eliminating 3rd Party Sendbird costs and saving **120K CAD/year**.
- Integrated a **stripe payment system** via RESTful APIs to streamline service fee collection for ride-sharing services, resulting in a **14%** increase in monthly revenue and enhanced user checkout experience.

Gnowise Inc **Data Scientist Intern** Waterloo 📅 Jan 2020 – Jun 2020

- Containerized and deployed a Python3-based **ETL** pipeline as a Flask-based microservice on an **AWS Fargate** instance to automate real estate price data streaming, resulting in the acquisition of a 2 GPU deal with CENGEN.

Axonify Inc **Java Developer Co-op** Waterloo 📅 Jan 2019 – May 2019

- Initiated the implementation of **dynamic MBeans** within the organization and integrated them with **Grafana** to enable real-time performance visualization of runtime jobs, leading to improved organizational monitoring.

Agfa HealthCare **Software Developer Co-op** Waterloo 📅 Sep 2017 – Apr 2018

- Configured **Kafka brokers** over **Zookeeper** based infrastructure to ease off data streaming between image copying and image rendering services for whole-side image management devices using Python2.7 and C++.
- Established an **IOT service** for tracking human movement activities such as sitting, standing and running utilizing Kafka and Spark within a **Hadoop** based ecosystem.

ACADEMIC PROJECTS

- **Weather Simulation:** Implemented papers on L System Parsing and Particle Systems for realistic environmental modelling to simulate real-world weather on a graphical scenery using OpenGL library in C++.