

David Gorski

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Work Experience

Senior Software Engineer - Bloomberg LP

August 2020 - Present, Remote

- Designing, developing, and maintaining high-performance distributed systems by leveraging Modern C++, Python and JavaScript. Collaborating with team members to enable dependable, business-ready full-stack software.
- Initiated, designed and implemented a distributed task scheduling ETL (Exchange, Transform, Load) system using Modern C++, RabbitMQ, Sql Server and COMDB2. Combined idempotent batch and stream processing to synchronize, transform, filter hundreds of millions of records across heterogeneous data stores. The result includes a processing pipeline supporting a data throughput reaching millions of records per second; enabling superior SLA (Service Level Agreement) and self-healing capabilities.
- Leveraging Open Source Big Data Tools, including Apache Kafka and Redis, to enable critical organization-wide infrastructure; handling billions of requests per day.

Software Developer - The Stars Group Inc.

September 2018 - July 2020, Richmond Hill/Remote

- Worked with Modern C++, Python, message distribution queues, and DB2 database system to expand Robust Back-End on the world's largest poker website. Focusing on code clarity, distributed system thinking, and data structure/algorithm selection.
- Developed software facilities enabling Critical Legal User Validation via external API calls designed to remain responsive under heavy load (thousands of simultaneous connections). Ensured system health by designing and integrating monitoring framework.

Junior Software Developer - Futurecom Systems Group, ULC.

June 2017 - August 2018, Vaughan

- Used Visual Studio, C++, and MFC to design and develop encrypted configuration link between Desktop and Embedded Mobile Public-Safety Radio System.
- Worked within a Linux Environment using C, C++, Postgres database system and Nanomsg message queues to develop crucial elements of a mission-critical Distributed System (Subway Safety System), including multi-threaded web application and binary data parsing algorithm doubling communication efficiency while lowering raw throughput.

Education

Bachelor of Science, Computer Science

2018 - 2020, Western Governor's University, Online

Bachelor of Commerce, Finance and Information Systems

2012 - 2016, McMaster University, Hamilton

Projects

- **User-Behavior Driven Content Feed** (Python, JavaScript, Machine Learning)
- **Map-Based Collaborative Urban Planning Platform** (Go, Svelte, Cloud, CI/CD)
- **Cryptocurrency** (C++, Micro-Services, Sockets, Concurrency)
- **Scheme Interpreter** (C++, Scheme, STL, Unit-Tests)
- **News/Link Aggregator** (Racket, SQL, HTML, CSS, Back-End)