

STIVI GURANJAKU

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EXPERIENCE

Software Engineer

Dialpad Inc

Jan. 2026 – Present

Kitchener, ON

- Hardened mission-critical billing infrastructure (Python/Sanic) with Braintree and Salesforce; ensured 100% idempotency in high-concurrency flows to prevent revenue leakage.
- Architected automated data pipelines to sync 55+ entity types between Google Datastore and BigQuery, building production-scale replication tooling to increase data integrity and testing velocity.
- Leading full-stack billing overhaul in Vue.js with an LLM analytics agent; optimized backend search indexing and data availability for real-time usage/balance reporting.

Software Engineer (Co-op)

Semper8 Capital Ltd

Sep. 2023 – Dec. 2023

Toronto, ON

- Architected a real-time NestJS/AWS backend with a WebRTC signaling server for low-latency video/text interactions; utilized AWS Lambda and Cognito for serverless scaling.
- Engineered a K-Means Clustering matching engine and optimized ETL pipelines to process app usage statistics, categorizing user behaviors for targeted personality-based interactions.
- Built cross-platform features using React Native and Redux, managing complex real-time content states.

QA Engineer (Co-op)

Uptake Inc

Jan. 2023 – Apr. 2023

Mississauga, ON

- Automated 100+ E2E tests using Selenium and Appium across 4 industrial AI product lines, significantly reducing manual regression overhead and accelerating release cycles.

Software Engineer (Co-op)

Hatchable Inc

Apr. 2022 – Sept. 2022

Toronto, ON

- Architected a secure "0-1" NestJS backend with AWS Cognito/S3, ensuring COPPA-compliant authentication and scalable media storage for an education-focused startup.
- Developed robust RESTful APIs with comprehensive documentation, establishing a secure infrastructure foundation.

Software Engineer (Co-op)

Titanfile Inc

Sept. 2021 – Dec. 2021

Toronto, ON

- Architected a streaming decryption feature to process encrypted folders into ZIP files chunk-by-chunk, ensuring browser compatibility while minimizing server memory overhead.
- Optimized backend response times via SQL query tuning and managed database migrations through Amazon Babelfish; improved CI/CD Docker configurations.

TECHNICAL PROJECTS

Hearthstore | Go, SQL, gRPC

- High-performance Go alternative to Cloud Firestore emulator; utilizes a multiplexed architecture handling gRPC, WebChannel, and REST on a single port to reduce memory footprint by 99%.

Phantom | C, OpenGL, SDL3, Metal, llama.cpp

- Developed a GPU-accelerated C terminal emulator with Metal-backed llama.cpp for on-device autocomplete and async streaming scrollbar search with $O(\log N)$ binary search.

StreamSaver.js (Contributor) | JavaScript, Web Streams API

- Extended library to support 4GB+ ZIP archives and custom TransformStreams; implemented backpressure handling within the Web Streams pipeline.

Discord Music Bot | Node.js, FFmpeg, AWS

- Engineered a real-time audio bot utilizing FFmpeg to pipe stream data directly to Discord's voice gateway, optimizing packet delivery and minimizing local CPU overhead.

EDUCATION

University of Waterloo

Honor's Bachelor of Mathematics, Combinatorics and Optimization

Sept. 2020 – June 2025

Waterloo, ON