

SANJAE SURESH

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Education

Wilfrid Laurier University

BSc Computer Science, Big Data Concentration

Apr. 2026

Waterloo, ON

Experience

Bloomberg

Incoming Software Engineer

Sept. 2026 – Current

New York City, NY

Rippling

Software Engineer Intern

Feb. 2026 – May. 2026

San Francisco, CA

- Building **Python** backend services to support complex profile mutations and effective-dated state transitions across distributed HR, payroll, and IT systems serving **20,000+** companies
- Designed and implemented **transaction-safe** and **versioned** update logic for stackable changes, preventing duplicate writes and reducing state inconsistency bugs by **35%** in concurrent workflows
- Refactored and optimized **REST APIs** and validation layers, cutting average mutation latency by **22%** and lowering edge-case failure rates in high-volume profile edit operations
- Leveraged **Cursor** and **Claude** for AI-assisted refactoring and automated test generation, increasing development velocity while maintaining strong code review and production quality standards

Activision Blizzard

Software Engineer Intern

Sept. 2025 – Dec. 2025

Vancouver, BC

- Supporting the **Call of Duty** commerce platform for purchases, bundles, and trade-ins, powering billions in annual revenue and serving **100M+** active players worldwide, using **Python**, **PostgreSQL**, and **Redis**
- Optimizing **database access**, **caching**, and **load distribution** with **SQLAlchemy**, **Redis**, and **Kafka** to increase throughput by **25%** and **reduce latency** by **15%**, directly improving the player purchase experience
- Strengthening bundle and trade-in logic by redesigning **purchase flows** in **Flask/FastAPI** services, reducing failed orders by **20%** and safeguarding millions in daily transaction value

Nokia

Data Engineer Intern

Jan. 2025 – Jul. 2025

Ottawa, ON

- Developed the **DLM**, an internal **Flask + PostgreSQL** tool that let non-technical staff manage **SQL Server** records securely, reducing support tickets by **80%** and saving engineer-hours
- Built scalable pipelines with **Python** and **SQL** to move **telemetry data** across systems, improving data freshness and reporting speed by **30%** for cross-functional analytics teams

Civiconnect

Software Engineer Intern

Sept. 2023 – Dec. 2023

Toronto, ON

- Built **full-stack** features for a hospital health application with **React.js**, **Node.js**, and **Supabase**, including real-time patient sync and **secure authentication** for staff use
- Optimized **REST APIs** with **asynchronous I/O** and **caching**, improving **concurrency** by **15%** and cutting backend response times for clinical data access

Projects

Parlance: AI Speech Coach App | *React Native, Node.js, PostgreSQL, OpenAI API*

- Built an **AI-powered** language learning iOS app that helps users develop fluency through real-time, adaptive conversations with **LLM-driven tutors** across configurable proficiency levels and topics.
- Designed the **conversation engine** and **feedback system** to deliver context-aware corrections, pronunciation guidance, and personalized session recaps that track vocabulary growth and speaking progress over time.

Technical Skills

Languages: Python, Java, TypeScript, JavaScript, Go, SQL, Bash, C++

Frameworks & Tools: React.js, Node.js, Flask, Express, GraphQL, gRPC

Data & Infrastructure: PostgreSQL, MySQL, MongoDB, Redis, Kafka, ETL, event-driven systems

Cloud & DevOps: Docker, Kubernetes, GitHub Actions, AWS (EC2, Lambda, RDS, S3), Azure, GCP

Software Practices: Agile Development, Test-Driven Development (TDD), Version Control (Git), API Design