

Sunil Kublalsingh

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Education

Concordia University

Bachelor of Engineering – Computer Engineering

2021 – June 2026

Montréal, QC

- **Courses:** Circuit Analysis, Digital Systems Design, Data Structures & Algorithms

Dawson College

DEC – Computer Science Technology

2018 – 2021

Montréal, QC

- Graduation Honours with Distinction
- **Courses:** JAVA, HTML, LINUX, SQL, C#, JAVASCRIPT

Work Experience

Morgan Stanley | [Software Developer \(Internship\)](#)

May 2024 - Aug 2024 | Montréal, QC

- Implemented full stack internal software using **REST endpoints** in **Java Spring Boot** speeding up SQL table **CRUD** capabilities by 23%, benefiting many teams across the department.
- Leveraged **multithreading** to efficiently **extract JSON schema** information from large data files, automatically generating clear and user-friendly table schema definitions.
- Created a simplified and easy-to-use interface under **ReactJS** and **TypeScript** to allow for quick and **real-time updates** of the changes done to the tables.

Morgan Stanley | [Software Developer \(Internship\)](#)

Jan 2023 - Aug 2023 | Montréal, QC

- Migrated a trade confirmation delivery management system to **Spring Boot** with **Gradle** and a modern **Java** version, **improving code maintainability** and reducing customer confirmation times from **2 days to 1**.
- Refactored legacy codebase using **agile practices**, improving **modularity** and easing future use.

Projects

[Car Rental System](#) | [MongoDB](#), [Express](#), [ReactJS](#), [Node.js](#)

- Collaborated with a 5-person team to deliver a full-stack web application over 4 Agile sprints.
- Developed **REST APIs** to facilitate **data exchange** between user interfaces and server-side processing.
- Designed and implemented a dynamic **MongoDB** schema to support diverse car models and rental configurations, enhancing **system scalability** and **adaptability**.

[AirZen](#) | [Android Studio](#), [Java](#), [ESP32](#), [C++](#), [Firebase Realtime Database](#)

- Utilized **SCRUM** principles to lead a team in **engineering** a fully functional **embedded IoT** air quality monitoring device, **delivering** a working prototype in 3 sprints.
- Integrated Firebase for **cloud-based storage** and **data synchronization** from the device to the mobile app.
- Developed push notifications to alert users when air quality metrics exceeded set thresholds.

[Peer-To-Peer File System](#) | [Java](#)

- Designed a **multi-threaded** client-server app that communicates using **UDP** and **TCP** for file transfers.
- Ensured **concurrency** and avoided **deadlocks** between **threads** using **mutexes** and **semaphores**.
- Enabled **real-time** and **periodic** updates to keep peer and file data in sync with **local persistence**.

Skills

Programming: Java, Python, C#, C++, Kotlin, JavaScript/TypeScript, Bash Scripting, 80x86 Assembly, VHDL

Web Development: HTML, CSS, ReactJS, NodeJS, Spring Boot, Flask, Express

Databases: SQL, MongoDB, Firestore, Realtime Database

Tools: Git, Docker, Junit, Swagger, Jest, UML, VS Code, IntelliJ, Microsoft Office: Word-Excel-PPT

Languages: English, French

Interests: Music, Bouldering, Hackathons