

Saahib Dhaliwal

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Education

University of Waterloo

Sep 2021 – Aug 2026

Bachelor of Computer Science (Co-op)

Waterloo, Ontario

- **Courses:** Real-Time Programming, Operating Systems, Concurrency, Graphics, AI, Databases, Networks | **GPA: 3.90**

Experience

Tesla

Jan 2026 – Apr 2026

Software Engineer Intern

Fremont, California

- Incoming Winter 2026

NimbleRx

Sep 2025 – Dec 2025

Software Engineer Intern

Redwood City, California

- Leading end-to-end projects on the platform team, improving performance and scalability at a high-growth startup

theScore

Jan 2025 – Apr 2025

Software Engineer Intern

Toronto, Ontario

- Led optimization for **Elixir/PostgreSQL** bet validation, reducing p95 latency from **7s** to **< 10ms** under high load (Super Bowl), improving UX across **theScore Bet & ESPN Bet** platforms by directly impacting **11M+** daily bet validations and **5M+** users
- Investigated and resolved **P1** bugs affecting iOS & Android notifications for **4M+** wagers/week, earning recognition from VPs
- Audited logging across sportsbook services by building **Datadog** dashboards and leading cross-functional meetings with **10+** stakeholders to drive alignment, cutting costs by **55%** (\$12K USD/mo) without sacrificing observability

Ford Pro (nominated for "Co-op Student of the Year")

May 2024 – Aug 2024

Software Engineer Intern

Oakville, Ontario

- Spearheaded redesign and implementation of major user-facing pages (**150k+** visits/mo) using **TypeScript** and **React**
- Led E2E test development in **Playwright**, ensuring availability and content accuracy for **200+** pages across **8** countries
- Pioneered a standardized **Tekton** pipeline for E2E test automation with **GCP** result storage and Slack notifications, cutting QA time by **2-3 hours** per deployment, reducing regression issues, and driving adoption across **multiple** frontend teams

Software Engineer Intern

- Designed and implemented an orchestration service to introduce write operations in the previously read-only GraphQL Federation, handling **2M+** req/week, using **Java**, **Spring Boot**, **PostgreSQL**, and **parallelized** graph-based processing
- Spearheaded integration of a **Kotlin Ktor** microservice with **Federated GraphQL**, implementing **MongoDB**-based data fetchers, to enable seamless access to this data through a unified **GraphQL** endpoint requested by **5+** teams
- Delivered on-call support, resolving **10+** weekly issues across **multiple** teams, and simultaneously reindexed **Elasticsearch** in production, reclaiming **25%** of space and boosting query performance

ATS Corporation

Sep 2023 – Dec 2023

System Software Engineer Intern

Cambridge, Ontario

- Transformed internal web application with real-time user handling (**WebSockets**) and CSV import/export using **React**, **Redux**, **Express**, and **Node**, resolving multi-user configuration conflicts and saving **8 hours/week** in configuration time
- Implemented PLC command history and digital input functions for the SuperTrak (**RTOS**) in **embedded C/C++**, with integration into the configuration software using **C#** and **.NET**, reducing debugging time by **40%** and enhancing system capabilities
- Innovated SuperTrak data monitoring and collection by developing a **Python** tool utilizing **SQLite**, **Pandas**, **matplotlib**, and **multi-threading**, achieving a **2-hour reduction** in company time per collection cycle

Caribou Contests

Jan 2023 – Apr 2023

Software Engineer Intern

St. Catharines, Ontario

- Spearheaded a verification system and introduced "Auto Translate" via **Microsoft's Translator API** using **jQuery**, **AJAX**, and **JavaScript** within the internal translation editor, making translation workflows **3-5 times** faster
- Launched a school ranking system by writing **MySQL** migrations and **20+ SQL** queries within **PHP** pages for **CRUD** operations, driving engagement and adoption across **1K+** schools and **86K+** active students

Projects

CTO & Co-Founder @ SheepIt | Kotlin Multiplatform, Ktor, Firebase, SQLDelight

- Won **1st place (\$5000)** out of **102** teams at the Velocity Pitch Competition (UWaterloo) for sheep herd management startup
- Directed team, development, and architecture to pioneer cross-platform solutions for Android–Apple compatibility

Tech Lead @ UW Blueprint

- Leading **7** engineers to build a scalable shelter management platform for Better Angels LA to combat housing insecurity

TrainOS | C++, Assembly

- Designed and implemented a **real-time microkernel** from scratch with task-based architecture, interrupt-driven I/O, and message-passing IPC, powering a real-world toy train control system with shortest-path routing and collision avoidance

Technical Skills

Languages: C++, C, C#, Java, Kotlin, JavaScript/TypeScript, Python, Elixir, GraphQL, SQL, PHP, HTML, CSS, Bash

Libraries: React, Express, Node, Spring Boot, .NET, Pandas, Flask, SQLite, Playwright, Tensorflow, Keras, JUnit

Tools: Git, GCP, Azure, MySQL, PostgreSQL, MongoDB, Firebase, gRPC, Kafka, Tekton, CircleCI, Docker, Kubernetes, Datadog