SURYA SENDHILRAJ

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EDUCATION

University of Waterloo   **2021 - 2026**
Bachelor of Applied Science - Systems Design Engineering
Courses: Data Structures & Algorithms (C++), Digital Computation (Python, Linux), Digital Systems (C, Assembly)
Cumulative **GPA: 3.8 / 4.0**

SKILLS

Languages: Java, Python, Kotlin, C++, SQL, JavaScript, HTML, CSS
Frameworks: Spring Boot, Django, React.js
Databases: Microsoft SQL Server, MySQL, PostgreSQL, Relational DBMS
Tools: Docker, Kubernetes, Helm, Kafka, Google Cloud Platform, Linux, Git, Jenkins, Postman, Swagger, Jira (Agile)

EXPERIENCE

OMERS - Backend Engineer Intern   **Sep 2022 - Present**
- Developing **microservices** in the pensions industry relied on by **500K+** people using **Java,** Spring Boot, **Kafka,** and **Google Cloud Platform,** leveraging **event-driven-design** principles
- Created **APIs** allowing **5** services to exchange updated notifications and changed user pension details using **Data JPA** and **PostgreSQL,** increasing displayed information **accuracy** by **13%** and customer **retention** by **4%**
- Reduced CI/CD testing pipeline times of a microservice by **37%** using **Mockito**, by reducing application context usage and decoupling it into **6+** service layers and controllers, from a monolith

PointClickCare - Software Engineer Intern   **Jan 2022 - Apr 2022**
- Optimized **microservices** used by **200K+** nurses using **Spring Boot** and **object-oriented design** principles
- Automated patient allergy imports with a **REST** API, decreasing import times by **80%**, using Spring **Data JDBC**
- Reduced failing **API** calls and database queries for documents by **25%** using **Hibernate** ORM and **SQL**
- Migrated **2** microservices to **Kubernetes** pods to automate container creation in **Jenkins** during testing
- Implemented **test-driven-development** practices to ensure **90%** coverage by creating end-to-end, integration, and unit tests using **Kotlin**, **JUnit**, mockMVC, WireMock, and Cypress
- Improved data reconciliation by **20%** by creating stored procedures and unit tests using **Microsoft SQL Server**

Tech For Good Inc - Software Engineer Intern   **Jun 2021 - Aug 2021**
- Developed backend endpoints and business logic for a drunk driving detection application using **Django**
- Manipulated **SQLite** and leveraged **object-relational-mapping** to make efficient queries about pupil dilation
- Increased user satisfaction by **30%** by implementing app navigation and **15+** components using **React.js**

PROJECTS

Where Am I? (GitHub)   **JavaScript, Django, REST API, SQLite, Bootstrap**
- Created an innovative **full-stack app** allowing users to learn about which **Indigenous** land they are on and about **600+** Indigenous lands **across the world**, and post tribe stories to a feed with **CRUD** operations
- Leveraged **Geolocation API** to get user lat/long and **Wikipedia API** to get land summaries
- Leveraged **Mapbox API** to render an **interactive map** for users to pick tribes and territories
- Enforced security by integrating register, login, and logout features

INTERESTS

Soccer ● Swimming ● Fitness ● Video Games ● Anime ● Chess