

SURYA SENDHILRAJ

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EDUCATION

University of Waterloo

2021 - 2026 (Expected)

BASc - Systems Design Engineering, Honours (**3.7 GPA**)

Courses: Data Structures & Algorithms, Digital Computation (C++, Python, Linux), Customer Experience Design

SKILLS

Languages: Python, Java, Kotlin, Swift, SQL, HTML, CSS, JavaScript, C++

Frameworks: Springboot, Django, SwiftUI, React.js

Databases: SQLite3, Microsoft SQL Server, MySQL (relational)

Infra/Tools: Docker, Kubernetes, Helm, Kafka, Git/GitHub, Jenkins, Postman, Jira, Linux, VSCode, IntelliJ, Xcode

EXPERIENCE

PointClickCare

Jan 2022 - Present

Software Engineer Intern | Mississauga, Ontario

- Developed high-quality features, refactored, and fixed bugs for **microservices** using **Java**, **Springboot**, and **object-oriented design** principles
- Improved the core **REST API** using **MVC** architecture by **automating** the import of allergies per patient, saving **1 min** of time per allergy, used by **1000+** nurses in North America
- Migrated **2** microservices into using **Kubernetes pods**, resulting in a faster local testing **speed** by **10%**
- Implemented **TDD** best practices using **Kotlin**, **Mockito**, **mockMVC**, and **RestAssured** by creating **end-to-end integration**, **CDC**, and **unit** tests to ensure a **90%** test code coverage
- Fixed flaky tests resulting in a **50%** increase in passing builds on **Jenkins**
- Utilized **Spring Data JPA**, **Hibernate ORM**, and **MySQL**, to optimize software by reducing **API** calls and **database** queries for previously failed documents by **27%**
- Modified **stored procedures** and wrote **unit tests** using SQL and **Microsoft SQL Server**, resulting in a **20%** improvement in **data reconciliation**
- Collaborated with a team following **Agile/Scrum** methodologies

Tech For Good Inc

Jun 2021 - Aug 2021

Software Engineer Intern | Sharon, Massachusetts

- Developed **backend views** for a drunk driving detection application using **Django** which allows users to track their **DUI levels** with data displayed on a dashboard in real-time
- Leveraged **SQLite** and **Django Admin Interface** to make data queries about user pupil dilation
- Refined the front-end of the dashboard using **Django HTML Templates**
- Developed **reusable components** for a time reporting system application using **React.js** which allows users to manage time spent on projects
- Leveraged **React Router**, client-side routing, and created a custom, dynamic navigation bar to improve user experience and page loading **efficiency** by **40%**
- Utilized git/GitHub for frequent version control, to collaborate with other interns in a team

RHSS Software Club

Feb 2021 - Jun 2021

Software Lead | Mississauga, ON

- Organized lessons to mentor **20+** students in **Java** and computer science concepts like **object oriented programming**, **recursion**, and **collection classes**
- Utilized online course technology to teach **web development** in groups to make small projects

PROJECTS

Where Am I? ([GitHub](#))

JavaScript, Django, SQLite, Bootstrap

- Created an innovative **full-stack app** allowing users to learn about which **Indigenous** land they are on and learn about any Indigenous land across Canada, and create posts with information about tribes to a **feed**
- Leveraged **Google Geolocation API** to get user lat/long and **Wikipedia API** to get land summaries
- Scaled **SQLite** DB of **600+** land records using Django **ORM**, resulting in quick retrieval of info in views
- Integrated **register** and **login** features to enforce security and **CRUD** principles on the posts

Match Master ([GitHub](#))

Swift, SwiftUI

- Created an **iOS** matching cards application with themes, unique animations + point logic
- Implemented **MVVM** (Model - View - ViewModel) architecture and followed best practices