

SURYA SENDHILRAJ

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EDUCATION

University of Waterloo

2021 - 2026

Bachelor of Applied Science - Systems Design Engineering, Honours (**3.7 GPA**)

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

SKILLS

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

Frameworks: Django, Springboot, SwiftUI, React.js

Databases: Microsoft SQL Server, MySQL, Relational DBMS

Infra/Tools: Docker, Kubernetes, Helm, Kafka, Linux, Git, Jenkins, Postman, Jira (Agile, Scrum), VSCode, IntelliJ

EXPERIENCE

PointClickCare - Software Engineer Intern

Jan 2022 - Apr 2022

- Developed features, optimized, refactored, and fixed bugs for **microservices** using **Java**, **Springboot**, and **object-oriented design** principles, used by **1000+** nurses
- Automated the import of allergies per patient in a **REST** API, increasing import efficiency by **60%**, using **MVC** architecture and Spring **Data JDBC**
- Reduced failing **API** calls and **database** queries for documents by **25%** using **JPA**, **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 a **90%** coverage using **Kotlin**, Mockito, mockMVC, **JUnit**, RestAssured, and WireMock by creating end-to-end, integration, and unit tests
- Improved user experience for individual medication selection by **20%** using **Vue.js**

Tech For Good Inc - Software Engineer Intern

Jun 2021 - Aug 2021

- Developed backend views for a drunk driving detection application using **Django**
- Manipulated **SQLite** and Django **Object-Relational-Mapping** to make data queries about pupil dilation
- Developed reusable components for a time reporting application using **React.js**
- Increased user experience **efficiency** by **40%** using React Router and client-side routing
- Utilized **Git** and GitHub for frequent version control, to collaborate with other interns in a team

PROJECTS

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

JavaScript, Django, SQLite, HTML, CSS, Bootstrap

- Created an innovative **full-stack app** allowing users to learn about which **Indigenous** land they are on and about any Indigenous land **across Canada and America**, and post tribe info to a **feed** with **CRUD** operations
- 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

Match Master ([GitHub](#))

Swift, SwiftUI

- Created an **iOS** matching cards application with themes, unique animations + point logic
- Integrated **MVVM** (Model - View - ViewModel) architecture and followed best practices
- Implemented a UI that is **responsive** and compatible with **8+** Apple devices

Chatr Planr ([Github](#)) ([Devpost](#))

React.js, HTML, CSS

- Developed a **web application** that integrates a group **calendar** to chat, **schedule** and view **events**
- Utilized the FullCalendar and Getstream SDK to aid with calendar and **chat** integration