# 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 (C++, Python, Linux), Digital Systems (C)
Cumulative GPA: 3.7/4.0

## SKILLS

**Languages:** Python, Java, Kotlin, C/C++, Swift, SQL, JavaScript, HTML, CSS
**Frameworks:** Django, Spring Boot, SwiftUI, React.js
**Databases:** Microsoft SQL Server, MySQL, Relational DBMS
**Infra/Tools:** Docker, Kubernetes, Helm, Kafka, Linux, Git, Jenkins, Postman, Jira (Agile, Scrum), VS Code, IntelliJ

## EXPERIENCE

**PointClickCare** - Software Engineer Intern                                          **Jan 2022 - Apr 2022**
- Developed features and optimized **microservices** relied on by **200K+** nurses using **Java, 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 **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 by creating end-to-end, integration, and unit tests using **Kotlin**, **JUnit**, Mockito, 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 Django **object-relational-mapping** to make data queries about pupil dilation
- Developed reusable components for a time tracking application using **React.js**
- Improved customer satisfaction by **30%** using React Router, client-side routing, and Jinja templates
- Utilized **Git** and GitHub for frequent version control to collaborate with **7** other interns in a team

## PROJECTS

**Where Am I? (GitHub)**                                **JavaScript, Django, REST API, 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 the world**, and post tribe stories to a feed with **CRUD** operations
- Leveraged **Google 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
- Scaled **SQLite** DB of **600+** land records using Django **ORM,** resulting in quick retrieval of info in views
- Enforced security by integrating **register, login,** and **logout** features

**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

## INTERESTS

Soccer ● Swimming ● Fitness ● Learning ● Video Games ● Anime