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 Systems (Linux, Assembly)
Cumulative **GPA: 3.8 / 4.0**

SKILLS

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

EXPERIENCE

Arctic Wolf Networks - Software Developer Intern   **May 2023 - Aug 2023**
- Developed content distribution microservices using **Go, AWS, Kubernetes, Kafka, Python**, and **Harness**
- Implemented a **Kubernetes Operator** to workaround limitations of **PostgreSQL** logical replication with database schema changes, resulting in a **26%** decrease in **Kafka** connector replication errors
- Created pipelines to publish **1K+** test results to **S3** buckets by leveraging **AWS EKS**, **ECR** and **Cloudformation**
- Designed **gRPC** servers and auth **APIs** to extract request metadata, reducing unauthorized user access by **12%**
- Configured **10+ Prometheus** alerts and metrics to monitor service health and identify areas with high latency

OMERS - Backend Engineer Intern   **Sep 2022 - Dec 2022**
- Developed pensions **microservices** relied on by **500K+** users using **Spring Boot** and **Google Cloud Platform**
- Fixed bugs and database migration discrepancies, reducing bad data by **6%** and increasing localization by **9%**
- Created **APIs** allowing **5** services to exchange updated notifications and changed user pension details using **Data JPA** and **PostgreSQL,** increasing displayed information accuracy by **26%** and customer retention by **4%**
- Reduced **CI/CD** testing pipeline times of a microservice by **37%** using **Mockito**, by reducing application context usage and restructuring 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 **Java,** Spring Boot and **object-oriented design**
- 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**
- 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 API endpoints for a drunk driving detection application using **Python, Django** and **MySQL**
- 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**
- Allows users to learn about **600+ Indigenous** lands **worldwide**, and post info to a feed with **CRUD** operations
- Leveraged **Geolocation, Wikipedia,** and **Mapbox APIs** for lat/long, land summaries and an interactive map