# Soorya **Saravanapavan**

SOFTWARE ENGINEERING STUDENT AT UNIVERSITY OF OTTAWA

✉ ssara031@uottawa.ca  |  🏠 soorya.io  |  🐙 suri111200  |  in /in/soorya-s

## Skills

**Programming**  Python, Java, JS, C#, C++
**Data Analytics**  SQL, SAS, NumPy, Pandas,
**Technologies**  OpenCV, Firebase, CircleCI, Colab
**Version Control**  Git, Azure DevOps

## Education

### University of Ottawa — *Ottawa, ON, Canada*

BASc Software Engineering — *2018 - Present*

- Recent courses completed: Intro to Artificial Intelligence, Software Quality Assurance, Design and Analysis of Algorithms, Programming Concepts with C++, Technical Report Writing

## Experience

### University of Ottawa — *Ottawa, ON, Canada*

Teaching Assistant - SEG2900 — *Sep 2020 - Dec 2020*

- Assisted to teach a software engineering course on the basics of web development
- Hosted weekly tutorials for students online
- Taught students to use Git and Github, HTML/CSS
- Regularly evaluated student work, answered questions with respect to course content

### Employment and Social Development Canada (ESDC) — *Gatineau, QC, Canada*

Junior Developer — *Jan 2020 - Apr 2020*

- Utilized Entity Framework, Excel Interop, C# (.NET), SQL, Java
- Designed and constructed a database to hold Unemployment Rate data from across Canada
- Developed functions to calculate employment insurance benefit payments based on legislation in the Canadian Employment Insurance Act
- Created WPFs using .NET framework to streamline the input and output of unemployment rate data from an SQL database for the end user
- Utilized Excel Interop and Entity Framework to parse data form spreadsheets and input/output directly to the database

### ZeMA gGmbh — *Saarbruecken, Saarland, Germany*

Production Engineering Intern — *May 2019 - August 2019*

- Extensively utilized Python packages such as OpenCV, Paho-MQTT, and NumPy
- Developed a human assistance system for smart production lines to decrease human error and increase efficiency
- Wrote Python scripts using OpenCV to find and locate desired items on the production line in real-time
- Worked with MQTT and TCP protocols to establish two-way communication with other smart devices within the production line
- Wrote Javascript functions and utilized new technologies such as Node-RED to connect and coordinate various devices within the system

## Projects

### Software for Love — *Ottawa, ON, Canada*

Software Engineer — *Jun 2020 - Sep 2020*

- Developed user interfaces using React.JS
- Collaborated alongside uOttawa Software Engineering Students to develop software applications for charitable organizations

### Clinic on Call — *Ottawa, ON, Canada*

Android Application Development — *Sep 2019 - Dec 2019*

- Developed an Android application for an end user to find services and book appointments with service providers
- Used Android Studio to develop app and Firebase to manage database activities
- Designed and performed unit tests and integration tests, utilized CircleCI to automate testing
- Utilized Git for version control and to effectively collaborate with other project members.

### Turner Fenton Robotics — *Brampton, ON, Canada*

Team Leader, Software Developer — *Nov 2017 - May 2018*

- Gained software development experience by using Version Control (Git) as well as RobotC (C – based programming language) extensively
- Learnt about the design process by partaking in design of the mechanical, electrical, and software aspects
- Gained management skills by coordinating team actions and meetings
- Gained time management skills by designing and building a tele-operated robot within 4 months, autonomous robot within 2 weeks
- 1st place overall in School district, 5th place in Ontario (Tele-Operated)