# Soorya **Saravanapavan**

SOFTWARE ENGINEERING STUDENT AT UNIVERSITY OF OTTAWA

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## Skills

**Programming**  Python, Java, JS, C#, C
**Data Analytics**  SQL, SAS, NumPy
**Technologies**  OpenCV, Node-RED, Firebase, CircleCI
**Version Control**  Git, Azure DevOps

## Education

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

BASc SOFTWARE ENGINEERING
*2018 - Present*

- Courses completed: Data Structures and Algorithms, Into to Software Engineering, Computer Architecture, Discrete Mathematics, Technical Report Writing

## Experience

### 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

### Infinite Outsourcing Solutions
*Toronto, ON, Canada*

SOCIAL MEDIA MANAGER
*July 2018 - August 2018*

- Studied social media algorithms to implement strategies to improve visibility of company online
- Familiarized with and frequently utilized Facebook, LinkedIn, Instagram, Twitter, Google+
- Automatically fetched, compiled, and displayed social media statistics and graphs on Google Spreadsheets to efficiently monitor progress
- 2,700% increase in Facebook views per week, 200% average increase in page likes/follows across all social media

## Projects

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

SOFTWARE ENGINEER
*Jun 2020 - Present*

- Developed user interfaces using React.JS
- Collaborated alongside uOttawa Software Engineering Students and PMs to build a kanban board and a website for the organization

### 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)