

# Soorya Saravanapavan

4TH YEAR SOFTWARE ENGINEERING STUDENT AT THE UNIVERSITY OF OTTAWA

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## Skills

**Programming** Python, Java, HTML, CSS, Javascript, Typescript, C#, C++, SQL

**Technologies** React, NumPy, Pandas, OpenCV, .NET, Colab, Jupyter Notebooks, .NET, Git, SVN

## Education

### University of Ottawa

Ottawa, ON, Canada

BASc SOFTWARE ENGINEERING

2018 - Present

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

## Experience

### Telus

Toronto, ON, Canada

SOFTWARE ENGINEERING INTERN

Sep 2021 - Aug 2022

- Engaged in back-end development to develop new tool with NodeJS and ExpressJS, with the end goal of saving front-line teams 3 hours per day
- Wrote automation scripts in C to streamline process flow and root cause analysis for issues
- Communicated with stakeholders, documented requirements, and added tickets to product backlog for projects
- Utilized JIRA, Github, C, NodeJS, ExpressJS, Postman

### Lumentum

Remote

SOFTWARE AUTOMATION ENGINEERING INTERN

May 2021 - Aug 2021

- Contributed to the ongoing development of automated solutions for optical transport products
- Automated tools and dashboard to visualize and analyze data to improve product performance and quality
- Worked in close collaboration with Optical, Hardware, Mechanical, Software, and R&D teams
- Utilized .NET, C, SVN, Jira, Jenkins, CodeCollab

### University of Ottawa

Ottawa, ON, Canada

CORRECTOR - ITI 1121

Jan 2021 - Apr 2021

- Regularly evaluated students' assignments and assessments in a timely manner
- Assisted professors to create appropriate questions for assessments

### University of Ottawa

Ottawa, ON, Canada

TEACHING ASSISTANT - SEG 2900

Sep 2020 - Dec 2020

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

### Employment and Social Development Canada (ESDC)

Gatineau, QC, Canada

JUNIOR DEVELOPER

Jan 2020 - Apr 2020

- Designed and constructed a database in SQL Server to centralize all Unemployment Rate data from across Canada
- Created applets using .NET framework to streamline the input and output of data to an SQL database for the end user
- Utilized Entity Framework, Excel Interop, C# (.NET), SQL, Java

### ZeMA gGmbH

Saarbruecken, Saarland, Germany

PRODUCTION ENGINEERING INTERN

May 2019 - August 2019

- Designed and 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 using cameras in real-time
- Worked with MQTT and TCP protocols to establish two-way communication with other smart devices within the production line
- Extensively utilized OpenCV, Paho-MQTT, and NumPy

## Entrepreneurship

### Software for Love

Remote

CHIEF EXECUTIVE OFFICER

May 2020 - Present

- Developed a non-profit organization with a team of 60+ developers, designers, and project managers with the end goal of breaking the barrier for software solutions in the non-profit sector
- Directed 10+ software projects over the course of 2 years to help clients in the non-profit sector with challenges that they are facing
- Donated \$6000 to local charities in the past year and partnered with Snyk, Google, and TechSoup for infrastructure support