

Soorya Saravanapavan

4TH YEAR SOFTWARE ENGINEERING STUDENT AT THE UNIVERSITY OF OTTAWA

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Skills

Programming Python, Java, JS, C#, C++

Data Analytics SQL, SAS, NumPy, Pandas

Technologies OpenCV, Firebase, CircleCI, Colab

Version Control Git, Azure DevOps, 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

Lumentum

Remote

SOFTWARE AUTOMATION ENGINEERING INTERN

May 2021 - Aug 2021

- Expected to contribute to the ongoing development of automated solutions for optical transport products
- Anticipated to automate tools and dashboard to visualize and analyze data to improve product performance and quality
- Expected to work in close collaboration with Optical, Hardware, Mechanical, Software, and R&D teams
- Anticipated to develop with .NET and C#
- Expected to utilize SVN, Jira, CodeCollab

University of Ottawa

Ottawa, ON, Canada

TEACHING ASSISTANT - SEG2900

Sep 2020 - Apr 2021

- 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 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 Excel Interop and Entity Framework to parse data from 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

Remote

PROJECT MANAGER

Dec 2020 - Present

- Oversaw planning, analysis, design, and implementation phases of a GatsbyJS website for Software for Love
- Implemented agile practices within a team environment
- Ensured project was completed within desired time-frame without compromising quality

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 C extensively
- Learned 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)