



# SRIRAM RANGAN

## AUTOMATION ENGINEER GRAD

### CONTACT

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 [\[site\]](#)

### SKILLS

R, SQL, MySQL, PHP, C++, Ruby, HTML, CSS, VB

Tableau, PowerBI

AutoCAD, Fusion 360, SolidWorks

MS Office, MS Project, records management, presentation, documentation

PLC programming (RSLogix), Sysmac Studio, HMI, SCADA, MATLAB, ROBOGUIDE, LabVIEW, Raspberry Pi

Oracle VM (Ubuntu)

### CERTIFICATIONS RECEIVED

Bachelor of Technology – Automation Engineering Technology (McMaster)

Chemical Engineering Technology – Process Automation Advanced Diploma (Mohawk)

Business Management Certificate (Mohawk)

Fanuc CERT Level 1 Certificate (Mohawk)

Google Data Analytics Professional Certificate

### EDUCATION

#### Google Data Analytics Professional Certificate

Coursera

Mar 2022 - Sep 2022

- Learned key analytical skills and how to clean and organize data for analysis and complete analysis and calculations using spreadsheets, SQL, and R.
- Visualized and presented data findings in dashboards and presentations with visualization platforms such as Tableau.

#### Bachelor of Technology (Co-op) - Automation Engineering Technology

McMaster University

Sep 2015 - Dec 2020

- Technical background with controls and hardware automation such as electric sensors, motors and PID controllers as well as web development, OOP, data manipulation, and IoT.
- Business background in quality assurance, operations management, and project management

### WORK EXPERIENCE

#### Lab Development Assistant – Machine Health and Remote Monitoring

McMaster University, Faculty of Engineering

Jun 2020 - Aug 2020

- Assisted the Bachelor of Technology Program Chair with editing and writing lab instructions for the Machine Health and Remote Monitoring course to be suitable for a virtual environment due to the COVID-19 pandemic.
- Developed lab projects which integrate the use of Raspberry Pi, Arduino, and MQTT for IoT applications and then documented them into detailed manuals to be reproduced by students.
- Employed critical thinking and problem-solving skills in an independent work-from-home environment when developing projects, cutting time by up to 30% and beating deadlines.

#### Web Developer Intern

Empower Health

Jun 2019 - Aug 2019

- Utilized critical thinking and problem-solving skills to develop Ruby scripts that would retrieve healthcare practitioner and provider data from various health websites to help marginalized communities connect to providers.
- Processed the records of 5000 healthcare practitioners and over 1500 providers by applying knowledge in HTML, JavaScript, JSON, and Nokogiri to retrieve and parse data.

#### System Analyst/Web Developer

McMaster University, Faculty of Engineering

Jan 2018 - Dec 2018

- Gained working knowledge of PHP, HTML, CSS, MySQL and applied that knowledge to develop an understanding of Laravel 5 and relational databases.
- Enhanced problem-solving, teamwork, and communication skills by collaborating with co-workers to troubleshoot programming errors daily.
- Worked with multi-disciplinary team to develop a web application that marked CAD assignments submitted by students, with key responsibilities in developing and assigning roles and permissions.