

# HARSHANK PATHAK

Ottawa, Canada

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## Education

### University of Ottawa

*Masters of Engineering - Electrical and Computer Engineering - 3.8/4 GPA*

**Sep. 2022 – Present**

*Ottawa, Canada*

### Gujarat Technical University

*Bachelor of Engineering - Information Technology - 3.62/4 GPA*

**Feb. 2017 – June 2021**

*Gujarat, India*

## Experience

### Tata Consultancy Services (TCS)

*System Engineer*

**Oct. 2021 – July 2022**

*Gandhinagar, India*

- Developed front end for Point of sale, Back office, and Enterprise console for major Retail company using React, NodeJS and PostgreSQL.
- Developed promotion algorithm to load customised promotion using XML and AWS to create and load a job.
- Worked with Agile Methodologies using JIRA. Also conducted Unit Testing, and prepared Sprint Release document.
- As a part of Quality Assurance Team and Was responsible for Technical Testing of promotions, Integration and System Testing of POS and other applications, and helped Automation Testing team to generate scripts using BDD Cucumber.
- Conducted Defect Triage, maintained Kanban Board and Sprint Backlog, fetched reports from Burndown charts and bugs Defect tracking in JIRA.

### Red Raven Infoways

*Web Developer*

**Jan. 2021 – Sep. 2021**

*Ahmedabad, India*

- Developed and maintained e-commerce websites using technologies such as HTML, CSS, JavaScript, and ReactJS
- Created inventory management system using MySQL and RESTful API.
- Utilized Git for version control and collaboration with team members.
- Conducted cross-browser compatibility testing to ensure maximum compatibility.
- Optimized website performance using techniques such as lazy loading and caching.

## Projects

### Real Time Sign Language Translator | *OpenCV, Yolo.mark, Google Colab, Flask*

**December 2020**

- Developed yolo.mark based develop ML algorithm which could detect and predict Sign Language.
- Used OpenCV and Flask to display the results locally in real-time.
- Collected and filtered data-set consisting of images of Sign Language.
- Used dimension reduction algorithm to trim the image area of the live feed.

### IoT Based Saline Level Monitoring System | *HTML/CSS, PHP, Arduino, RESTful API*

**February 2020**

- Developed Saline level monitoring system that can be used in Hospitals to monitor and alert users about the Saline bottle levels of patients.
- Build a portable wireless Arduino-based IoT system that could detect Saline level real-time and.
- Created RESTful API that sends data to a centralized server, directly from individual Arduino.
- Developed a website with a front-end in HTML/CSS and a back-end in PHP that could read and display the reading of the IoT hardware.

## Technical Skills

**Languages and Technologies:** HTML/CSS, XML, React JS, Node JS, PostgreSQL, MySQL, MongoDB, RESTful API, Python, C++, Java, JavaScript, PHP

**Developer Tools:** VS Code, Eclipse, JIRA, AWS, GCP, Selenium

**Technologies/Frameworks:** Windows, Linux, Jenkins, Git, GitHub, JMeter, WordPress, OOPs, Agile Methodologies, BDD Cucumber Architecture

## Leadership / Extracurricular

### Student Startup and Innovation Program

**2018 – 2021**

*Committee member*

*Gujarat Technical University*

- Worked in SSIP club that helps students develop their startup ideas into real prototypes, helps them find funding, and connects them with companies and investors.