# Rajat Patwari

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patwarir

Ø rajatpatwari.com

**in** patwarir

**(**647) 563-4925

#### **SKILLS**

Languages: C#, HTML, CSS/SCSS, JavaScript/TypeScript, C/C++, Java, SQL, Rust, Python

Tools: ASP.NET Core, Node.js, Express.js, Git, Bootstrap, SQLite, Visual Studio, AWS

Certifications: MTA: Software Development, MTA: Database Administration, RECF Robotics, MOS 2013

## **EXPERIENCE**

### **Student Software Developer**

Aug 2017 - Mar 2019

Lakewood High School | St. Petersburg, FL, USA

- Created an internal school web app to schedule meetings between parents and front administration members. Met with the administration team to obtain requirements and mold them into a functioning website using HTML, SCSS, TypeScript and Bootstrap for the frontend. Used ASP.NET Core MVC (C#, Razor) and SQLite on the backend to provide extensibility.
- Implemented a **REST ASP.NET Core Web API (C#)** to manage the school's technology resources.
- Managed accounts on Active Directory to help students recover user credentials.

## **Programming Club Executive**

Oct 2019 – Jun 2020

West Humber Collegiate Institute | Toronto, ON, Canada

- Advertised and increased club membership by 5 members or 17%.
- Taught peers and younger students how to code using Python, Java and Rust.

#### **PROJECTS**

Vertex https://gitlab.com/patwarir/vertex

May 2019 - Aug 2020

- Built a new stack-based high level assembly language from scratch in .NET Core (C#).
- Improved the user experience by achieving a 10% performance uplift via a 47% opcode reduction between versions 1.0 and 2.0. Provided users with more options through increasing the size of the standard library from 8 functions to 54 functions, and 104 functions planned for version 2.5.

# Candy Launcher 3000

Sep 2020 – Dec 2020

- Developed the web component for an automated candy launching mechanism that helps maintain social distancing during Halloween. Independently built the backend using **Node.js/Express.js** in **TypeScript** and a static frontend using **Bootstrap** and **Axios**.
- Collaborated with 4 others using **Git** for version control.

# Personal Website https://rajatpatwari.com

Feb 2020 - Jan 2021

• Constructed and deployed a personal website hosted on an **AWS Lightsail** cloud instance using **Node.js/Express.js** and a **NGINX** reverse proxy.

#### **EDUCATION**

#### **University of Waterloo**

Sep 2020 - Mar 2025

Candidate for Bachelor of Software Engineering (B.S.E.), GPA 91.27%