

# Piyush Razdan

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## EDUCATION

### University of Toronto

Honours Bachelor of Science in Computer Science and Geographical Information Systems

Grad. Nov 2024

Toronto, ON

## EXPERIENCE

### Software Developer Intern

Environment and Climate Change Canada

May 2022 – Aug 2023

North York, ON

- Implemented **automation** scripts using **Azure CLI**, **Python**, and **REST API's** to manage users, assign roles, and configure processes in DevOps projects, improving client service agreements by **20%**.
- Overhauled Azure **pipeline** workflows using continuous **integration** and **deployment**, along with repository backup systems configured in **YAML**, resulting in a **10%** reduction in deployment times.
- Utilized **Postman** to detect API issues and alert development team, resulting in **81%** of SDK errors being identified prior to deployment in the **pre-prod** environment, leading to a more seamless **QA** testing process.
- Built a **user interface** for project decommissioning using **Tkinter**, reducing **manual** deletion time by **25%**.

### Python Tutor

Freelancer

May 2020 – Aug 2020

Mississauga, ON

- Delivered weekly **Python** lessons to senior secondary students interested in programming, covering **8** fundamental **beginner** and **intermediate** concepts.
- Conducted **16** sessions using **PyCharm** on syntax, data types, loops, conditionals, file input/output, libraries, exceptions, and object-oriented programming, providing **guidance** and **support**.

## PROJECTS

### Dev-Nexus | React, Node.js, Express, GitHub Pages, VS Code

Jun 2024

- Established a responsive portfolio using **React** and **Node.js** runtime, pushing **25+** web-responsive fixes.

### Wordle Frenzy | React, jQuery, Express, Fetch API, Web Sockets, Git, VS Code

Apr 2024

- Built a word-centric multiplayer arena using **React** and **Web Sockets** for bi-directional communication, where users compete to guess a randomly generated word within a **60** second window.
- Ensured persistent **user identities** through **cookie** management, resulting in a **15%** increase in session duration and maintaining primary identifiers across sessions.

### Play-Portal | PHP, PostgreSQL, HTML5, CSS, VS Code

Feb 2024

- Created a **web** and **mobile-friendly** mini-games site using the **MVC** pattern, implementing **3** distinct games and securing user authentication with **hashed** passwords.
- Structured a **PostgreSQL** database to facilitate **login/signup**, storing user info and scores for Rock-Paper-Scissors, Jumping Frog Puzzle, and Guess the Number, with detailed **user profiles** and **game stats** for up to **100** users.

### Donor-Charity Platform | Next.js, React, TypeScript, Tailwind CSS, Vercel, VS Code

Dec 2023

- Collaboratively developed a **charity-donor** engagement platform using **Next.js**, deployed on **Vercel**, featuring real-time **chat** and tools for accessing insights into charity **operations** to enhance interactions.
- Conducted **usability** testing with **6** participants, implementing **financial** transparency via quarterly **reports**, boosting user **comprehension** and **trust** in charities.

### 3 Musketeers AI-Integrated | Java, JavaFX, JUnit, GitHub Actions, Eclipse

Dec 2021

- Designed an **AI-driven** board game in **Java** and **JavaFX**, employing a greedy AI with the recursive **minimax** algorithm and featuring **3** unique game board configurations.
- Added **3+** creational design patterns and coordinated development with **GIT** branches, using agile workflows for **iterative** sprints and **continuous** integration, leading to consistent updates.

## TECHNICAL SKILLS

**Languages:** Assembly, C, Go, Haskell, Java, JavaScript/TypeScript, PHP, Python, Racket, R, Shell, SQL, YAML

**Libraries/Frameworks:** Ajax, Django, Express, Fetch, HTML/CSS, jQuery, JUnit, Node.js, PyTest, React

**Cloud Platforms/IDE's:** AWS, Azure, CLion, Eclipse, IntelliJ, Jupyter, PyCharm, Vim, VS Code

**Miscellaneous:** Agile, Apache, Git, Jira, JSON, LaTeX, MongoDB, PostgreSQL, Postman, REST API, Terraform

**Soft Skills:** Adaptability, Communication, Diligence, Documentation, Leadership, Productivity, Solutionist, Teamwork