

Piyush Razdan

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EDUCATION

University of Toronto

Honours Bachelor of Science in Computer Science and Geographical Information Systems

Expected Aug 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 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