

Piyush Razdan

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EDUCATION

University of Toronto

HBSc in Computer Science and Geographical Information Systems - GPA: 3.25/4.0

Toronto, ON

Sep. 2019 – Aug. 2024

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 **2** 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.

Infrastructure Lifecycle Automation | *Python, REST, JSON, Terraform, Azure, VS Code*

Aug. 2022

- Developed a **cloud-driven** project setup system leveraging **Python** and Azure's **REST API**, boosting project addition speed by **20%** and enabling the creation of **10+** projects each month.
- Devised a **user access** management system that integrated Azure licenses with **role-based** access controls, evaluating unauthorized access incidents for over **350+** users across the organization.

Three Musketeers AI-Integrated | *Java, JavaFX, JUnit, GitHub Actions, Eclipse*

Nov. 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, Haskell, Java, JavaScript/TypeScript, PHP, Python, Racket, R, Shell, SQL, XML, YAML

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

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