Piyush Razdan

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Education

University of Toronto | GPA: 3.25/4.00　　　　　　　　　　　　　　　　　　　　　　**2019 - 2024**
Honours Bachelor of Science in Computer Science and Geographic Information Systems　　　*Toronto, Canada*

Coursework

- Algorithm Analysis
- Full Stack Development
- Data Structures
- Software Design
- Database Management
- Systems Programming
- Functional Programming
- Unit Testing

Experience

Software Developer Intern　　　　　　　　　　　　　　　　　　　　　　　　**May 2022 - Aug 2023**
Environment and Climate Change Canada　　　　　　　　　　　　　　　　　　　　*North York, Toronto*

- Implemented **automation** scripts using **Python**, **Postman**, and **REST API** in Azure to manage users, assign roles, and configure processes in DevOps projects, improving client service agreements by an approximate **20%**.
- Overhauled Azure **pipeline** workflows using **CI/CD**, resolved critical **bugs**, and added client repository **backup** systems, causing a **10%** reduction in deployment times and improved **resource** management.
- Designed and engineered **user interfaces** for project decommissioning using **Tkinter**, streamlining the decommission process and reducing **manual** deletion time spent by **25%.**
- Assisted in managing **ticketing** using Azure's **Kanban** board, tracking **3+** tasks daily and supporting a team of **10**.

Python Tutor　　　　　　　　　　　　　　　　　　　　　　　　　　　　　**May 2020 - Aug 2020**
Self-Employed　　　　　　　　　　　　　　　　　　　　　　　　　　　　　*Greater Toronto Area*

- 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**

- Etablished a responsive portfolio using **React** and **Node.js**, with **Express** integration and **50+** commits to ensure compatibility with **mobile**, **iPad**, and **web** views.

Wordle Frenzy | *React, jQuery, Express, Fetch API, Web Sockets, Git, VS Code*　　　　　　　　**Apr 2024**

- Built a fully-functional 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** minigames 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**

- Led the development of a **cloud-driven** project setup system using **Python** and Azure's **REST API**, improving project **addition** speed by **20%**, effectively creating **10+** projects monthly.
- Devised a **user access** management system that integrated Azure licenses with **role-based** access controls, overseeing 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 timely updates.

Skills

Languages: Assembly, C, Haskell, Java, JavaScript/TypeScript, PHP, Python, Racket, R, Shell, SQL, YAML
Libraries/Frameworks: Ajax, Django, Express, Fetch, HTML/CSS, jQuery, JUnit, Node.js, NumPy, PyTest, React
Cloud Services/IDEs: AWS, Azure, Google Cloud, CLion, Eclipse, IntelliJ, PyCharm, VS Code
Miscellaneous: Apache, CI/CD, ESRI, Git, LaTeX, MongoDB, PostgreSQL, Postman, REST, Terraform