PIYUSH RAZDAN

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Education

University of Toronto | GPA: 3.25/4   **2019 - 2024**
Honours Bachelor of Science in Computer Science and Geographic Information Systems   *Toronto, Canada*

Relevant Coursework

- Algorithm Analysis
- Data Structures
- Database Management
- Functional Programming
- Full Stack Development
- Software Design
- Systems 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, enhancing operational efficiency by **18%**.
- Overhauled Azure **pipeline** workflows using **CI/CD**, resolved critical **bugs**, and added repository **backup** systems, causing a **12%** 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 **33%.**
- Managed **ticketing** using Azure's **Kanban** board, facilitating efficient task **tracking** and fostering team collaboration.

Projects

Dev-Nexus | *React, Node.js, Express, GitHub Pages, VS Code*   **Jun 2024**

- Established a responsive portfolio using **React** and **Node.js**, featuring secure API integration with **Express** and tested deployments via VS Code.
- Utilized **GitHub Pages** with deployment workflows in VS Code for real-time updates, seamless integration, and efficient project management.

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

- Built a fully-functional **multiplayer** arena using **React** for the front-end and **Web Sockets** for bi-directional communication.
- Integrated **advanced** gameplay features, including physical keyboard support, winner display, and **synchronized timers** for competitive play.
- Ensured persistent **user identities** through **cookie** management, resulting in a **25%** 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 for organized development and **hashed** passwords for secure user authentication.
- Structured a **PostgreSQL** database to handle **login/signup** and store data, including scores for Rock-Paper-Scissors, Jumping Frog Puzzle, and Guess the Number game, with detailed **user profiles** and **game stats**.

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 and precision by **33%**, effectively creating over **15+** 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.
- Provisioned and managed **virtual machines** and **blob storage** using **Terraform**, while streamlining **CI/CD** pipelines with **YAML** to achieve a **12%** increase in deployment efficiency.

Three Musketeers AI-Integrated | *Java, JavaFX, JUnit, GitHub Actions, Eclipse*   **Nov 2021**

- Developed an **AI-driven** board game using **Java** and **JavaFX**, featuring a **greedy** AI agent deployed using the recursive **minimax** algorithm, and modeled in **object-oriented** principles.
- Added **3+** creational design patterns and coordinated development with **GIT** branches, leveraging agile workflows for **iterative** progress and **continuous** integration.

Technical 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