■ piyush.razdan@gmail.com ② piyush.io ۞ GitHub in LinkedIn

### **EXPERIENCE**

# **Environment and Climate Change Canada** | Software Developer Intern

May 2022 - Aug 2023

- Designed and formulated DevOps management tools using Python, Postman, and REST in Azure, achieving a 30% boost in operational efficiency.
- Overhauled CI/CD pipelines and implemented automated backup systems, reducing times by 40% and boosting resource efficiency by 25% through Terraform integration.
- Developed a new user interface for efficient project decommissioning, enhancing decision-making efficiency by 20%.

#### **PROJECTS**

# DevNexus | React, Node.js, Express, GitHub Pages, VS Code

- Engineered 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

- Built a fully-functional multiplayer arena using React for the front-end and Web Sockets for bi-directional communication, improving user engagement.
- 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 40% increase in session duration and maintaining unique identifiers across sessions.

## Infrastructure Lifecycle Automation | Python, REST API, Azure, VS Code

- Led the development of an cloud-driven project setup system using Python and Azure's RESTful API, improving project deployment precision and scalability by 30%, effectively managing over 50+ projects monthly.
- Managed a project cleanup feature which decommissions outdated projects and reclaims over 2 terabytes of server storage annually, optimizing resource allocation.
- Devised a user access management system that integrated Azure licenses with role-based access controls, decreasing unauthorized access incidents for over 300+ users across the organization.

# CI/CD Backup Integration | Terraform, JSON, Python, Azure, PyCharm

- Optimized virtual machines and blob storage using Terraform, refining infrastructure-as-code practices and enhancing system consistency by 40%.
- Engineered CI/CD pipelines using YAML to streamline code integration and deployment, bettering development speed and system performance.

#### Three Musketeers Al-Assisted | Java, JavaFX, JUnit, MVC, GitHub Actions, Eclipse

- Developed an Al-driven board game, Three Musketeers, using Java and JavaFX, featuring a greedy Al agent implemented with the minimax algorithm, emphasizing object-oriented programming principles.
- Employed design patterns and coordinated development with GIT branches, leveraging agile workflows for iterative progress and continuous integration.

#### **FDUCATION**

# **University of Toronto** | HBSc in Computer Sci. and Geographical Information Sys. CGPA: 3.28/4

2019-2024

Courses - Algorithm Analysis, Cloud Computing, Computer Networks, Data Structures, Database Management, Functional Programming, Linear Algebra, Network Security, Software Design, Statistics, Systems Programming, Web Development

#### SKILLS

#### **Programming Languages**

Assembly, C, Haskell, Java, JavaScript/TypeScript, PHP, Python, Racket, R, Shell, SQL, YAML

#### **Technologies**

- Ajax, Django, Express, Fetch, HTML/CSS, JavaFX, jQuery, JUnit, Node.js, NumPy, PyTest, React
- · AWS, Azure, Google Cloud, CLion, Eclipse, IntelliJ, PyCharm, VS Code
- Apache, CI/CD, ESRI, Git, LaTeX, MongoDB, PostgreSQL, Postman, REST, Terraform