RICHELLE PEREIRA

Computer Engineering Student at University of Toronto

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Education

Bachelor of Applied Science (B.A.Sc.) - Computer Engineering September 2021 – Present
University of Toronto, Toronto, ON

Skills

- **Programming**: Python, C/C++, NodeJS, HTML/CSS, React-Bootstrap, JavaScript, SQL.
- **DevOps & Development**: Docker, Jenkins, Kubernetes, Helios.
- **Non-technical**: Problem Solving, Critical Thinking, Collaboration.
- **Familiar with**: OOP, Datastructures & Algorithms, Git/GitHub, microservices (i.e. Flask), MVC-Framework, other frameworks (i.e. ExpressJS, FeathersJS, Spring Boot, Fast API, PyTorch, Pytest), cloud computing (Azure).

Experience

Developer - Global Ops & Procurement | Java, SQL, NodeJS, Postman May 2025 – Aug. 2025
Manulife, Toronto, ON

- Created full API documentation for a fraud detection app (Express-NodeJS, Feathers framework) monitoring 65,000+ Concur expense transactions/month, improving team efficiency by 30%.
- Assisted in developing Java-based integration with a CLM (Contract Life-cycle Management) tool to streamline and automate business processes.
- Built and tested features including automated email alerts and dashboard activity notifications, boosting fraud response speed. Designed email templates and created logic for clearer communication and improved user experience.
- Helped develop process-unity -data integration tool that automatically fetches and displays external data, saving 10+ hours of manual work monthly.

Developer - TPC & Development Team | Python, REST API, OCP May 2024 – Aug. 2024
Royal Bank of Canada (RBC), Toronto, ON

- Integrated firewall management and security monitoring systems into a unified platform, streamlining risk assessments and firewall rule requests.
- Developed scalable Python client modules for third-party tools (i.e. NetBrain, JSOC, etc.) using Model-Controller-Services architecture with 100% coverage in unit and integration testing.
- Implemented Python data structures to resolve and verify source-destination requests, and efficiently mapped firewalls within its path in seconds.

Developer - Cloud Security Integration (CSI) Team | Python, Jenkins. Helios Sept. 2023 – Dec. 2023
Royal Bank of Canada (RBC), Toronto, ON

- Developed a Python GitHub bot with third-party integrations (e.g., NetSkope) to automate FQDN evaluations for enterprise risk management and compliance, using regex and security scores.
- Engineered Jenkins pipeline triggered by GitHub web-hooks to seamlessly integrate new FQDNs or any changes into NetSkope by leveraging Python script to efficiently fetch, analyze, and update files from GitHub.

Systems Engineering Intern | Ansible, Power-shell Scripting, LXCs May 2023 – Aug. 2023
PAL Aerospace Ltd., Halifax, NS

- Developed automation using Ansible to install AIMS-ISR mission system software on aircraft, leveraging infrastructure-as-code principles for streamlined configuration.
- Set up build environments in Proxmox and LXC containers to test configurations, using Bitbucket for version control, and integrating Jira and Confluence to manage the build system and documentation in an Agile workflow.
- Reduced the installation and setup time from 2-3 hrs to half hour with performance testing on physical systems.

Explorer Intern | Azure Solution Design, Azure AI, Azure Data May 2022 – Aug. 2022
Microsoft Corporation, Toronto, ON

- Certified in Microsoft Azure, Azure AI, and Azure Data Fundamentals, with experience in cloud migration, cost tracking, and governance solutions.
- Utilized Azure resources (Active Directory, IAMs, RBACs, VMs, SQL, Cosmos DB, Vnets) to design solutions that align with business goals and solve complex problems.