Nicholas Reilly

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GitHub| LinkedIn

EDUCATION

Software Engineering Technology   **Sep 2024 - Apr 2027**

Conestoga College   *Waterloo, ON*

Information Technology Foundations   **Sep 2019 - Apr 2020**

Conestoga College   *Cambridge, ON*

SKILLS

Programming Languages Python | C++ | C | C# | JavaScript | HTML | CSS | PHP | PostgreSQL | Oracle

Technologies Docker | Azure AD | Kubernetes | Azure DevOps | Git | Visual Studio | Eclipse

EXPERIENCE

Region of Waterloo   **Mar 2023 - Jun 2024**

ITS Support Consultant   *Waterloo, ON*

- Provided technical support to local and remote staff, resolving hardware and software issues across platforms and maintaining a high standard of IT service.
- Managed and administered accounts for Microsoft Exchange, Office and Teams; performed file and e-mail restorations as needed.
- Conducted regular on-site maintenance visits, proactively identifying potential issues and implementing preventative measures.
- Configured, supported, and advised on mobile device usage from account setup to software installations.
- Collaborated with supervisors to implement new technologies and recommend automation strategies.
- Created and maintained knowledge-based documentation for recurring issues to streamline troubleshooting process
- Developed and tested standardized and custom PC images for efficient deployment ensuring compliance with licensing policies and maintaining asset inventory.

Wellington Healthcare Alliance   **Nov 2022 – Mar 2023**

Junior System Administrator   *Fergus, ON*

- Analyzed and managed network security across three hospital sites, compiling and troubleshooting network logs and collaborating on issue resolution.
- Oversaw the procurement, configuration and monitoring of door security panels and lighting infrastructure to ensure operational integrity.
- Presented solutions for hospital IT challenges, collaborating closely with stakeholders to support automation, new hardware deployment, and system evaluations.
- Partnered with help desk staff to test and evaluate systems, ensuring smooth functionality prior to organization wide release.

Apple   **Aug 2017 – Nov 2022**

Lead Technician   *Waterloo, ON*

- Handled complex technical escalations, achieving resolution and satisfaction for escalated customer cases.
- Led a team in maintaining repair standards, safety protocols, and providing hands on training on the latest repair procedures.
- Facilitated team communication and development, guiding professional conduct, performance expectations and safety compliance.
- Supported operations by ensuring balanced cash registers, assisting sales staff in meeting targets and coordinating new hire onboarding and training.
- Developed a Python based command line web scraper to automate data ex traction from various websites enabling users to filter specific content based on predefined parameters.
- Utilized beautiful soup and requests libraries to parse HTML, retrieve relevant data, and output filtered results in a user-friendly format.
- Optimized scraper performance to handle large data set sufficiently implementing error handling for timeouts and page load failures to ensure reliable operation.
- Created the project as an open-source tool allowing users to contribute an adapt the scraper to different websites or use cases.
- Leverage regular expressions and data processing techniques to filter and clean the scraped content, delivering accurate and relevant information to end users.

PROJECTS

Personal Portfolio Website
Independent Developer

Dec 2024

Waterloo, ON

- Developed a personal portfolio website using HTML, CSS and JavaScript hosted on GitHub Pages.
- Showcased skills with sections for projects, resume download, and contact information.
- Incorporated interactive elements such as JavaScript animations and smooth page transitions.
- Designed a clean, professional layout with responsive design for mobile and desktop devices.
- Utilized GitHub Pages to deploy and maintain the site, demonstrating proficiency in web development and version control.

Emergency Notification System (Python)
Independent Developer

Sept 2024 – Dec 2024

Waterloo, ON

- Designed and implemented a Python-based emergency notification system for Conestoga College, allowing security personnel to send emergency alerts across multiple sites via a user-friendly Tkinter interface.
- Developed a Flask server to manage HTTP POST and GET requests, enabling real-time communication between the UI and the network infrastructure.
- Implemented network evaluation logic to automatically scan and validate IP addresses across possible subnets, ensuring accurate targeting of the correct site for each notification.
- Created a custom HTML payload system that opens an alert page on users' web browsers, providing a visual warning in case of emergencies.
- Integrated error handling and logging to ensure the system operates smoothly and remains resilient under high-traffic conditions.

Student Management System
Independent Developer

Nov 2024 – Dec 2024

Waterloo, ON

- Developed a C/C++ command line application for managing student records.
- Implemented struct arrays to store student data, including grades.
- Enabled file operations to save and load student data.
- Provided functionality for adding new students, modifying grades for individual students, and reading from/writing to files.
- Demonstrated strong understanding of arrays, structs and file handling in C/C++.

C# Calculator
Independent Developer

Nov 2024 – Dec 2024

Waterloo, ON

- Built a C# calculator application using object-oriented programming principles.
- Designed a graphical user interface to perform basic arithmetic operations like adding, subtracting, multiplying and dividing.
- Implemented object-oriented programming concepts like classes, methods and events for efficient code structure and reusability.
- Demonstrated familiarity with C# coding language and Windows Presentation Foundation to create a user friendly and interactive experience.