

DANIEL NKEMDIRIM

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EDUCATION

Carleton University Ottawa, ON Bachelor of Information Technology with Distinction, Network Technology, Co-op Option

Aug 2019– Jun 2025, Relevant coursework: Data structures and algorithms, computer science courses, DevOps & Programming

Algonquin College of Applied Arts and Technology Ottawa, ON Advanced Technology Diploma in Computer Engineering Technology Aug 2019 – Jun 2025

Certifications: Nokia Service Routing I

EXPERIENCE

Software Developer Jan 2022 – Sep 2023 Iroko TV Iagos, NIGERIA

- Designed and executed automated tests across diverse platforms, ensuring seamless functionality of streaming apps on various devices, contributing to a 25% reduction in defects.
- Resolved over 30 user-reported issues on the IROKO TV Streaming App, enhancing overall user experience and satisfaction
- Collaborated with the device Integration team to contribute over 800 lines of code to the codebase using C++ and Java
- Created 80+ player tests and interface tests to ensure smooth playback experience and optimal user interaction
- Resolved issues with existing automated tests, resulting in a 30% increase in test reliability and accuracy
- Presented findings and recommendations to the team, contributing to informed decision-making processes and improving development efficiency by 15%.
- Created over 100 tests, raised 75+ bugs, and followed up with the team to correct faults, ensuring timely product delivery.
- Played a key role in the testing phase for the launch of the IROKO app, ensuring its readiness for a seamless user rollout achieving zero critical defects at launch.
- Worked in an Agile-based environment using SCRUM, contributing to 26 sprints
- Identified, recorded, tracked, and thoroughly documented over 80 bugs.
- Worked on various test plans to assist in automated test development improving test coverage by 20%

PROJECTS

Proxmox Advanced Homelab | python, git, zabbix September 2024-April 2025

- Built and managed a secure three-node Proxmox cluster for high availability
- Deployed services including WireGuard VPN, AdGuard DNS filtering, Zabbix monitoring, Plex, Nginx, WordPress, and Seafile
- Implemented automated VM backups and dynamic DNS for remote access
- Enabled live VM migration and efficient resource balancing across nodes

Machine Learning Project | Python, Adversarial robustness Toolbox Jan 2024 – Apr 2024

- Developed and implemented an Intrusion Detection System by creating a Machine Learning model
- Enhanced security protocols by integrating an Adversarial Machine Learning Framework

GoodStreams | JavaScript, PHP, CSS, Git Apr 2023

- Collaborated with a team to develop GoodStreams, a website that allows users to keep personalized lists of movies/shows
- Implemented features for users to create and manage personalized lists of movies and shows, utilizing JavaScript and CSS for dynamic and responsive design.

Electronic Arts Software Engineering Program | Python, Pygame Jul 2022

- Developed a new game based on changing the rules of Pac-Man by using Python code and open-source implementations

TECHNICAL SKILLS

- Programming Languages: Java, Python, C/C++, SQL, Ruby, JavaScript, Typescript, HTML, CSS, PHP
- Tools & Technologies: GitHub, Docker, Xcode, Visual Studio, Android Studio, Jira, Test Rail, Jenkins, Ansible, Confluence, Kubernetes, VMware, Virtualbox, Zabbix, Wireshark, tcpdump, TCP/IP, UDP, OSPF, BGP, DNS, OSPF, VLAN, Postman, IntelliJ, Eclipse, Google Test (gtest), SNMP, CI/CD, Azure, Charles Proxy, React, Arduino, Cisco, GCP, Django, PostgreSQL, MongoDB, Linux, Node.js, Flask, AWS, MERN