Joshua Saikali

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Education

Bachelor of Computer Science, Cybersecurity Stream   Sep. 2021 - Present (Expected Apr. 2026)
*Carleton University – 4th year – **GPA: 11.37/12 (A+)***   *Ottawa, ON*

Available for 4 months starting April 2025

Skills

Programming: Python, Java, C++, C, JavaScript
Technologies: Git, Docker, SQL (MariaDB, Postgres), NoSQL (MongoDB), Jenkins, Wireshark
Tools: BitBucket, GitHub, Jira, Confluence, VS Code, PyCharm, IntelliJ, Netbeans
Languages: English, French

Experience

Service Router Networking Test | Nokia   Jan. 2025 - Apr. 2025
Incoming in January 2025

Routing/IP Software Engineer | Ciena   Apr. 2024 - Aug. 2024
Python, Docker, Git, Unix/Linux, Bitbucket, Jira, Confluence, Jenkins, PyCharm, Agile   *Ottawa, ON*
- Designed and developed **Python automation scripts** to streamline **debugging and triage** for dataplane features (EVPN, Multicast, L3), **significantly reducing debugging/triage time**
- Contributed to **redesigning** the **dataplane test suite** (DPTS) **infrastructure**, which enhanced overall reliability and **reduced execution time by approximately 40 hours**
- **Migrated** automated nightly **regression tests** (DPTS) from **cron** to **Jenkins** by taking the **initiative** to streamline the process, resulting in consistent testing of the latest code-base and **improved overall reliability**
- Gained hands-on experience with **router and switch operating systems**, including **5164 routers**, **3924 platforms** and more, managing **Docker containers** across multiple environments for optimized operations
- Worked closely with various members across the organization to align on project goals and integrate solutions effectively via **MS Teams**, **Jira**, and **Confluence**

Software Developer | SimFront Simulations   May 2023 – Dec. 2023
Java, MariaDB (SQL), Maven, Git, IntelliJ, NetBeans, Jenkins, VSphere, Windows   *Ottawa, ON*
- Developed and integrated a bring your own acceptance tests (BOAT) builder feature for Wringer, combining **Java** and **MariaDB** for a seamless **GUI** and **back-end** experience
- Executed comprehensive **integration** and **acceptance tests** on VCCI (Virtual Command and Control Interface, is used to support simulation-based training to the military) software components using Wringer, identifying areas for improvement and enhancing overall software reliability
- **Troubleshot** and **debugged** issues related to VCCI and Wringer, specializing in GUI issues and addressing intricate thread-related challenges for improved software stability using **Java**
- Enhanced **information security** for sensitive military data on CAST WG web portal using **WordPress**, ensuring **data confidentiality**

Projects

Threat Detection and Analysis with SIEM | *Azure Sentinel, SIEM, Python*   Oct. 2024
- Deployed a **honeypot VM** and integrated it with **Azure Sentinel**, enhancing **detection** of **malicious traffic** and **threat analysis**
- Automated metadata extraction from **Windows Event Viewer** using **Python** and **APIs** to map attack **geolocation** in **Sentinel** accurately
- Configured **Azure Log Analytics** and **Sentinel workbooks** to visualize and **monitor RDP brute-force attacks** on a global scale

Neurofeedback EEG Simulator | Lead Software Developer | *C++, Qt, Git, GitHub*   Apr. 2024
- **Led a team** of software developers in **designing** and **developing** a Neurofeedback EEG Simulator, capable of **analyzing brain waves**, identifying the most dominant frequency band, and applying targeted treatment cycles

Network Traffic Analysis Tool | *Python*   Jun. 2023
- Developed a packet sniffer in **Python** to perform real-time monitoring of network traffic, providing detailed insights into packet headers, payload structures, and network protocols, including analysis of **IP/TCP**, and **UDP** packets