

Mohamed Amine Jmal

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EDUCATION

Algonquin College

Computer Engineering Technology - Computing Science; GPA: 3.9/4.0 (Dean's Honor List)

Ottawa, ON

May 2024 – Jun 2027

EXPERIENCE

IBM Z

Sep 2024 – Present

IBM Student Ambassador

Ottawa

- Successfully completed rigorous training modules resulting in earning two prestigious IBM certifications focused on key aspects of mainframe technology, driving engagement from 15+ classmates and facilitating knowledge-sharing sessions.
- Facilitated sign-ups of more than 25 fellow classmates to the Z Xplore platform, leveraging personalized communication to encourage active engagement and enriched learning opportunities within student networks.
- Spearheaded the establishment of a thriving mainframe club, attracting over 20 students in under three months by organizing impactful learning sessions focused on hands-on experiences with IBM Z systems.

SSP System

Nov 2024 – Apr 2025

Junior Student Developer Intern

Ottawa

- Established robust test frameworks using Test Data and **TDM tools**, covering 25 critical features within the software; findings meaningfully contributed to eliminating three significant sources of performance failures.
- Confirmed effectiveness of bug fixes through detailed regression tests involving more than ten key functionalities; performed **root-cause analysis** and ensured a seamless end-user experience while decreasing support queries related to previous error reports by four times.
- Streamlined the management of Continuous Integration/Continuous Deployment (CI/CD) pipelines, reducing deployment times by 30%, which allowed for more rapid feature releases and improved overall system stability.
- Created and maintained documentation for testing processes, deployment workflows, and development environments using **Jira** and **Confluence**, improving team collaboration and knowledge sharing.
- Coordinated with a team of 5 developers, QA engineers, and DevOps specialists to streamline deployment workflows and system deployment processes; enhanced CI/CD pipeline efficiency by reducing build times from two hours to 30 minutes.

TECHNICAL SKILLS

Programming Languages: Python, C/C++, Java, JavaScript

Developer Tools: Git, Docker, GitHub, Jira, Confluence

Database Management: PostgreSQL, MySQL

Frameworks: Django, Flask, React, Angular

PROJECTS

64-bit Kernel

Jan 2024 – Mar 2024

- Developed a custom 64-bit kernel from scratch, utilizing low-level programming concepts in C and Assembly.
- Tested and debugged kernel code using QEMU and GDB to simulate hardware and troubleshoot low-level issues.
- Built a custom bootloader to load and initialize kernel in a 64-bit protected mode environment.
- Collaborated using GitHub, showcasing effective use of version control and collaboration tools.

EXTRACURRICULAR ACTIVITIES

IBM Z Mainframe Club

Nov 2024 - Present

Leader

- Defined and documented business requirements for mainframe training materials, resulting in a 20% increase in student engagement and improved knowledge retention.
- Developed and implemented a new training program using Agile methodologies, resulting in a 30% increase in student certification completion rates.