

YASSINE MOUMINE

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SUMMARY

"A jack of all trades is a master of none, but often times better than a master of one" - *William Shakespeare*
"Help will always be given at Hogwarts to those who ask for it" - *Albus Dumbledore*

AFFILIATIONS

uOttawa CS Club (UOCSC) | PLAY (non-profit) | uOttawa Esports Club

EXPERIENCE

- Kelpie Robotics** - *Software Engineer Member (Club)* Ottawa, ON | Sep 2024 - Present
- Created build scripts in Bash/Python for ROS-based autonomous navigation system.
 - Designed a C++ I2C wrapper for Linux and a TCP-based sensor system
- University of Ottawa** - *SecOps Developer* Ottawa, ON | Sep 2024 - Dec 2024
- Automated security workflows by 30%, using Node.js, PowerShell, and Graph APIs in Docker servers
 - Reduced resolution time for threat detection across 600,000+ users, by optimizing workflows in Excel
 - Conducted daily analysis on 2000+ security logs using Splunk and Microsoft Defender analytics
- Canada Revenue Agency** - *Software Engineer* Ottawa, ON | Sep 2023 - Apr 2024
- Built ML experiments with 90%+ accuracy, using optimization algorithms and Azure Databricks
 - Maintained an Inner-source platform using PostgreSQL, Sequelize ORM, Express, Node.js, and Angular while optimizing Kubernetes deployments on OpenShift
 - Eliminated CI/CD build errors across 5 teams, by optimizing Jenkins pipelines
 - Improved modularity by publishing 3+ UI components as reusable Npm libraries in JFrog Artifactory
- University of Ottawa** - *Software Engineer* Ottawa, ON | Sep 2021 - Apr 2023
- Collaborated in automating a bus service process generating \$15M+ in revenue using C# and Blazor
 - Launched internship app reaching 1,000+ downloads, by leading React Native front-end development
 - Increased engagement by 50%, by deploying a revamped .NET app, adding a custom event calendar
 - Led a QA team of 4 students in regression testing, while also conducting interviews for future candidates

PROJECTS

- Rental AI** | *Flask, Python, Next.js, Scikit-learn*
- Predicted rental prices with 87% accuracy by training an Random Forest ML model on API listings
- Focus-Feen - HacktheHill 2** | *React, TensorFlow, Tailwind, Google Cloud*
- Developed a real-time AI application in 48 hr hackathon, leveraging CNN architecture, React and Cloud
- Wild Fire Simulation** | *CUDA, Freeglut, C++*
- Accelerated simulation runtime on Freeglut by 3x by implementing CUDA kernel optimizations
- Deep Learning Protein Classifier** | *Python, Keras, TensorFlow, NumPy*
- Fine-tuned hyper-parameters using GridSearchCV, outperforming Machine Learning models by 15%
- Similarity Image Search Engine** | *Java, Go, Prolog, Racket*
- Built variants of an image search engine across 4 programming paradigms, implementing OOP in Java, concurrent processing in Go, logical reasoning in Prolog, and functional programming in Racket

TECHNICAL SKILLS

Languages:	C, C++, Python, Golang, Java, JavaScript, Shell, SQL, C#, TypeScript, HTML/CSS
Tools:	Git, Jira, Docker, Kubernetes, Linux, Jenkins, AWS, Azure Databricks, PostgreSQL
Frameworks:	Node.js, React.js, Express.js, AngularJS, JUnit, Redux, EF, .NET, Tailwind, ROS
Concepts:	Distributed Systems, Multithreading, Object-Oriented Programming, DevOps, Cryptography Data Structures and Algorithms, Machine Learning, Deep Learning, Cybersecurity

EDUCATION

University of Ottawa BASc. in Computer Engineering (CO-OP)	Ottawa, ON Sep 2019 - Dec 2024
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