

Contact

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Top Skills

Large Language Models (LLM)
Agentic
Cyber Threat Intelligence (CTI)

Languages

Bamoun (Native or Bilingual)
English (Professional Working)
French (Full Professional)

Certifications

Certification in Electronics & Instrumentations from Birla Institute of Technology & Science, Pilani, India
Python Programming for Developers

Publications

Stability Analysis of Slotted Aloha Protocol for Cognitive Radio Users Using TUA
Internet of Things (IoT) Security Architecture for Smart Cities
Entity and Relation Extractions for Threat Intelligence Knowledge Graphs

Inoussa Mouiche

CyberSecurity & AI Researcher | Data Scientist | Software Engineer
Waterloo, Ontario, Canada

Summary

I am a cybersecurity researcher and engineer with strong expertise in threat intelligence, natural language processing, and knowledge graph construction. My academic journey spans cybersecurity, software engineering, and applied mathematics, where I have developed advanced skills in machine learning, data-driven security analytics, and automated entity–relation extraction from cyber threat intelligence (CTI) reports.

I have authored and co-authored several peer-reviewed publications in top conferences and journals (Computers & Security, Knowledge-Based Systems, Springer, SECURITY, RAID, etc.), focusing on cyber threat intelligence automation, NER/RE models, and dataset integration frameworks aligned with standards like STIX 2.1. These works contribute to advancing AI-driven cybersecurity systems and reproducible research through the release of open-source datasets and frameworks.

Beyond research, I bring hands-on experience in software development (Python, Java, JavaScript/Node.js, React, Django, C/C++), data engineering (Hadoop, Spark), and cloud computing (AWS Certified Developer Associate). I am equally comfortable building production-ready applications, developing AI/ML models, and deploying scalable cybersecurity solutions.

GitHub <https://github.com/imouiche?tab=repositories>

Website: <http://imouiche.wixsite.com/inoussa/projects>

Experience

University of Windsor

Research Assistant

January 2022 - Present (3 years 10 months)

Windsor, Ontario, Canada

Cybersecurity & AI: Advancing Cybersecurity through Intelligent Extraction Frameworks and Knowledge Graphs

Agfa HealthCare

6 years 7 months

Bilingual Customer Support Analyst and Data Coordinator

October 2021 - Present (4 years 1 month)

Global IT Monitoring Specialist

April 2019 - October 2021 (2 years 7 months)

Waterloo, ON, Canada

- Performed remote server monitoring using Nagios on Windows, Linux and Unix environments • Troubleshoot network and VPN connectivity, managed SAS storages, disk space, DB scheduled jobs, and monitored agent related issues while respecting the SLA.
- Monitored Agfa healthcare systems, storage networks, Impax and Enterprise Imaging clients, and oracle databases.
- Wrote knowledge base articles, implemented changes and scheduled maintenance modes on Agfa systems when necessary.

Gide

Technology Consultant

November 2018 - March 2019 (5 months)

Kitchener/Waterloo, Canada Area

- Extracted and analyzed google & amazon reviews using node.js., python selenium, parsehub, etc
- Implement machine learning algorithms to classify extracted data
- Configured and troubleshoot network & computer issues for coworkers, installed and updated patches when necessary.

SAP

Network and Application Support Engineer

October 2017 - October 2018 (1 year 1 month)

Waterloo, ON, Canada

- Performed root cause analysis to solve network and application issues by analyzing application server's logs & alerts on frontend/backend, using third party tool such as Wireshark, HTTPWatch trace, and monitoring application security and network to support SAP customers and partners.
- Developed and deployed Fiori applications using JavaScript, Java, HTML5, CSS, React, JQuery, JSON, ABAP
- Developed and published Odata services along with CRUD operations and Core Data Service (CDS) views for Smart Business Analytics KPI tiles.

- Troubleshoot, debugged and configured Fiori applications to support customers and other SAP partners (Large Enterprises, Midsize Companies and Small Businesses)
- Configured SAML2 authentication using SAP Web dispatcher as a proxy server
- Configured and analyzed web dispatcher and Apache Tomcat profiles, HTTPWatch, Wireshark
- Wrote and published SAP Knowledge Base Articles, Wiki/Blogs to support SAP engineers and customers
- Experienced SAP Process Integration and Orchestration; configuration, mapping and development
- Familiar with S/4HANA Cloud Platforms, On-premise Systems
- SQL, MySQL, and Relational database experience
- Provided remote, email and on call technical supports to SAP customers and partners (Large Enterprises, Midsize Companies and Small Businesses) for both cloud and on-premise systems
- Conducted application configurations, assessed code and consistency of different components on both front end and backend systems, and ensured data integrity.
- Verified and updated applications and servers' patches, recommended procedural and technical changes to improve and maintain system performance.
- Troubleshoot and configured SSL certificate, SAML2, HTTP/s and web dispatcher/proxy servers
- Provided schedule an expert and expert chat consulting requests to configure, maintain and monitor SAP products; escalated unsolved issues when necessary.

African Institute for Mathematical Sciences (AIMS)

Research and IT Assistant

August 2015 - June 2016 (11 months)

Limbe BP 608, South West region, Cameroon.

- Teaching Software Development with Python with Scikit Learn, Spyder and R
- Teaching cryptography along with coding experience using Python
- Teaching Scientific Computing: Linux commands, Network troubleshooting, LaTeX and IT tools
- Teaching nonlinear programming using swarm optimization algorithms

- Programmer and Research Analyst for 4 months for the Cameroon Development Corporation's Project to optimize the volume of liquids in the sink at time T

Cyber Café 4G

IT Support Assistant

January 2014 - July 2014 (7 months)

Yaounde-Cameroon

- Installed and updated software packages and operating systems, helped configure and upgrade computer hardware systems.
- Provide remote & email technical supports to CC4G customers and partners
- Troubleshoot and diagnosed PC computer and Network problems and solved possible faults

Education

University of Windsor

Doctor of Philosophy - PhD, Computer Science · (January 2022 - December 2025)

University of Victoria

Master, Telecommunications Engineering and Information Security · (2016 - 2017)

African Institute for Mathematical Sciences-Cameroon

Master's degree, Applied Mathematics and Computer Sciences · (2014 - 2015)

B. K. Birla Institute of Engineering & Technology, Pilani

Certificate, Electronic and Instrumentations · (2012 - 2013)

University of Yaounde I

Master's degree in Electronics, Optimal Designs of Digital Filters · (2011 - 2013)