







NOUR EL MOKHTARI

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SKILLS

Languages: Python, C/C++, Javascript, TypeScript, SQL, Java, Bash, HTML, CSS.

Security Tools: Wireshark, Nmap, Metasploit, Burp Suite, Kali Linux, Snort, Ghidra, IDA Pro, Nessus, Splunk.

Tools: Git, Docker, PostgreSQL, MongoDB, Cloudflare, Salesforce, Postman, MS Office, Tableau.

EDUCATION

Wilfrid Laurier University

Honours Bachelor of Science in Computer Science, Co-op

Waterloo, ON

Aug. 2027

EXPERIENCE

Backend Software Engineer

FoodForGood - Co-Op

Sep. 2025 - Dec. 2025

Toronto, ON

- Developed automation infrastructure using Vercel middleware and Node.js/Make.com pipelines, optimizing API routing and automating entity extraction processes.
- Integrated Salesforce REST + Apex APIs and external connectors to sync attachments, update objects, manage access controls, and ensure reliable downstream data flows.
- Developed GPT-driven agents for querying Salesforce records, retrieving encrypted notes/attachments via middleware, and generating customized responses.
- Built an Outlook-GPT-Salesforce and copilot studio email automation system using webhooks, Graph API calls, and multi-agent memory (Mem0) to enable responsive client interactions.
- Developed private REST APIs backed by MySQL schemas, enabling the exposure of application data and facilitating LLM workflows and automation pipelines for information retrieval.

Software Developer

Dribbl - (DMZ Incubator, Part Time)

Apr. 2025 - Aug. 2025

Toronto, ON

- Developed secure application infrastructure using OAuth2, JWT, and Node.js, implementing secure authentication flows and designing encrypted data schemas for content management.
- Spearheaded secure application deployments, configuring CI/CD pipelines on Heroku and GitHub Actions, while implementing SSL/TLS encryption, DNS configurations, and Cloudflare to enhance system integrity and protection.
- Integrated Strapi to manage and expose CMS-based content for web apps, and used Supabase to store user data, manage posts, and handle real-time updates.
- Led daily Agile standups and coordinated tasks via Jira, Trello and Notion, while managing version control using Git and collaborating on UI design using Figma.

IT Security Consultant Intern

Pensploit Security

Sep. 2024 - Jan. 2025

Mississauga, ON

- Designed and implemented secure onboarding flows and encrypted login systems to mitigate vulnerabilities and ensure compliance with privacy and data protection best practices.
- Led security assessments for clients, identified and triaged vulnerabilities, and provided remediation strategies. Leveraged Splunk and Tableau to monitor security threats, ensuring timely risk mitigation.
- Managed DNS security, configured DNS records, and ensured secure routing for clients' platforms. Led over 30 consultations to improve clients' security posture and mitigate vulnerabilities in infrastructure.
- Conducted research on emerging security threats and best practices, contributing to the development of internal security documentation and resources to improve team knowledge and response strategies.

PROJECTS

WinC2Lab

Aug. 2025

- Developed a Tor-based secure outbound connection as part of a Stage-1 dropper for secondary components, enabling adversary emulation and secure environment setup for penetration testing and malware research in isolated environments.
- Secondary modules are delivered and loaded dynamically over the secure channel, enabling research into WinAPI internals, modular execution, and adversary-emulation tradeoffs in isolated environments.

NoPhish

Mar. 2024

- Built a phishing detection tool that integrates multiple public threat intelligence APIs and a custom logic layer to flag suspicious URLs with no prior reputation.
- Automated link scan workflows to process over 300 phishing attempts during testing, developing skills in threat analysis, secure request handling, and multisource data validation.

TelemetryBGone

Mar. 2025

- Created a low-level tool that monitors and blocks telemetry data and outbound network traffic, using WinAPI to interact with firewall rules and network resolution APIs for enhanced system privacy and network security.
- Implemented firewall rule generation to selectively block traffic from background services like svchost.exe while preserving essential user-facing functionality.

Hear-O Watch - *MakeUofT 2024 Hackathon Winner*

Feb. 2025

- Developed an IoT-based wearable device to detect fire alarms and door knocks, integrating vibration and visual alerts via OLED and sound sensors. Implemented secure communication protocols to ensure data privacy and device integrity.
- Built a real-time dashboard using Streamlit and Flask to receive alerts from Arduino devices, process events via serial I/O and Python CLI tools.

FormIntel

Apr. 2025

- Developed an AI-powered pipeline to classify scanned business documents (invoices, receipts) using OCR and a TensorFlow model, with summaries delivered via REST APIs.
- Designed modular workflows for data classification, feature extraction, and Flask API deployment, integrating LLM-based summarization, dataset prep and model evaluation

RELEVANT COURSES

- **CP264:** Advanced Data Structures and their applications in C.
- **CP372:** Computer Networks: Focus on network security, communication and protocols.
- **CP214:** Finite and Discrete Structures relating to computers. (sets, functions, relations)
- **CP312:** Algorithm Design/Analysis I: Data structure algorithms and encryption techniques
- **CP213:** Object-oriented-programming in Java.
- **CP386:** Operating Systems: Linux, CPU scheduling, memory management, virtual memory.
- **CP317:** Software Engineering: process models, analysis, Agile Development, SDLC.
- **CP216:** Micro-Processor architecture (32-bit ARM Assembly) Using the DE1-SoC Board.

EXTRA CURRICULARS

CTF Activities: Active CTF participant at [PicoCTF](#), [HackTheBox](#), [TryHackMe](#)

President, Laurier Cybersecurity Club: Organized and led Capture The Flag (CTF) events and technical meetings, coordinated club operations and events, managed funding and built partnerships with other student organizations to expand participation and engagement.

VP of Hardware, Laurier Robotics Club: Coordinated hardware-focused club events and technical sessions, assisted with course review talks including microarchitecture, and hosted workshops introducing embedded systems using Arduino, Raspberry Pi, and ESP32 boards.