

Jasraj Singh Johal

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TECHNICAL SKILLS

Languages: Python, C, SQL, JavaScript, Bash

Security & IAM: Azure AD, Okta, SSO/Federation, RBAC, CrowdStrike, Splunk SIEM, Threat Detection, Incident Response, Vulnerability Assessment, Digital Forensics, Phishing Analysis

DevSecOps: Docker, Git, CI/CD, Burp Suite (In progress), OWASP Top 10, Secure Coding

Frameworks: MERN stack, Next.js, Django, REST APIs, Firebase

EXPERIENCE

Purolator

May 2025 – Present

IT Security Analyst | IAM/SecOps

Mississauga, ON

- Implemented and maintained **Azure AD** and **Okta** SSO integrations and federation setups, strengthening IAM.
- Participated in security investigations of **phishing incidents** and collaborated on endpoint protection using **CrowdStrike** for rapid threat response.

LOCVM

June 2025 – Present

Software Engineer | Next.js, MongoDB, Firebase

Part-time, unpaid

- Implemented **RBAC** & strict auth/input validation, reducing unauthorized access & ensuring data integrity.
- Developed **Smart Matching Dashboard** with advanced **filtering**, **sorting**, and **visualization**, improving recommendation accuracy and user decision-making speed.

American Express

May 2024 – Aug 2024

Information Security Analyst Intern | Python, React, Express, Bash, APIs

North York, ON

- Cybersecurity Team - Designed and developed security-focused training modules using **React** to educate developers on **secure coding practices**, reducing security vulnerabilities by 30%.
- Developed a simulated API security environment, demonstrating **OWASP Top 10 vulnerabilities** to enhance threat awareness and **secure software practices**.
- Developed **Python** and **Bash** scripts to automate URL validation & **Parsers**, reducing manual workload by 40%.
- Gained hands-on exposure to **DevSecOps** lifecycle, integrating security principles into CI/CD pipelines.

Riipen – Radiology Artificial Intelligence Network

Nov 2023 – Jan 2024

Software Engineer | React, Django

- Redesigned hospital app UI with advanced filters (Django + React), improving usability.
- Performed **risk-based security assessment**, identifying and documenting key vulnerabilities.

PROJECTS

Capstone Project: Responding to a Security Incident at Premium House Lights 🏠

- Led incident response investigation of a suspicious extortion email, applying **cyber forensics**, **log analysis**, and **incident planning** to assess scope and recommend mitigations.

Cat's Company Vulnerabilities Report 🐱

- Performed vulnerability assessment with **Greenbone Vulnerability Management** on Windows and Linux, identifying and prioritizing 11 issues with documented **remediation** steps for technical, non-technical stakeholders

LEADERSHIP & ACTIVITIES

McMaster University Clubs

Sept 2024 – Present

- Co-founded the **McMaster Cyber Society** and served as **VP Cybersecurity** of the Competitive Programming Club, leading CTF logistics and boosting ethical hacking engagement.
- Competed in national-level **CTFs**, excelling in **digital forensics**, **web exploitation**, and **network security**, with achievements including 3rd place in **Ontario Crack the Code** and 5th in **ISSessions CTF 2025**.

EDUCATION

McMaster University

Sept 2022 – Expected April 2027

Bachelor of Applied Science, Computer Science Coop

Hamilton, ON

- Relevant Coursework: Computer Security, Data Structures & Algorithms, Operating Systems, Computer Networks.

LightHouseLabs 🏠

May 2023 – Aug 2023

Diploma in Cyber Security

- Developed hands-on skills in **blue team operations**, **threat detection**, and **vulnerability assessments**. Gained experience with **forensic tools** (**Autopsy**, **Volatility**, **Wireshark**), and **compliance reporting**.