

# Jasraj Singh Johal

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## TECHNICAL SKILLS

**Languages:** Python, C, SQL (PostgreSQL), JavaScript (React, Node.js), Bash.

**Cybersecurity & DevSecOps:** Burp Suite Certified Practitioner (In progress), SIEM (Splunk), Threat Detection, Incident Response, Vulnerability Assessment (Greenbone), Digital Forensics (Autopsy, FTK Imager, Volatility), Network Security (Wireshark, Snort), IDS/IPS.

**Development & Frameworks:** Full-Stack (React, Express.js, Django), RESTful APIs, Docker, Git, CI/CD.

## EXPERIENCE

### American Express

May 2024 – Aug 2024

*Software Engineering 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*

- Revamped the hospital application's UI with improved filtering functionality using **Django** and **React**, enhancing usability and responsiveness, leading to a more user-friendly experience.
- Conducted a **risk-based security assessment**, identifying and documenting **key vulnerabilities** in a hospital application, contributing to security recommendations.

## PROJECTS

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

- Led an incident response team to investigate a suspicious extortion email triggering a potential security incident gaining experience in **cyber forensics**, **log analysis**, and **incident planning**.
- Analyzed artifacts including **network diagrams**, **Wireshark captures**, **access logs**, and **database data** to assess the threat and scope of the compromise with a detailed report, recommending next steps and mitigations.

### Cat's Company Vulnerabilities Report 🔒

- Conducted vulnerability assessment using **Greenbone Vulnerability Management** on Windows and Linux systems, identifying 11 vulnerabilities and prioritizing them based on severity.
- **Documented** comprehensive findings and detailed **remediation** steps, ensuring clear communication for both technical and **non-technical stakeholders**.

## LEADERSHIP & ACTIVITIES

### McMaster University Clubs

Sept 2024 – Present

- **VP Cybersecurity — McMaster Competitive Programming Club:** Leading CTF logistics and cybersecurity initiatives, boosting member engagement in ethical hacking.
- Competed in national-level, in-person **CTFs**, solving challenges in **digital forensics**, **web exploitation**, and **network security**. Achievements include: **Ontario Crack the Code by Splunk** (3rd place), **CyberSci Regionals CTF 2024**, and **ISSessions CTF 2025** (5th place).

## EDUCATION

### McMaster University

Sept 2022 – Expected May 2026

*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**.