

Jasraj Singh Johal

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EDUCATION

McMaster University

Hamilton, CA

Bachelor of Applied Science, Computer Science Coop

Sept 2022 – Expected May 2026

- Relevant Coursework: Computer Security, Data Structures & Algorithms, Operating Systems, Computer Networks and Security, Software Development

LightHouseLabs / McMaster University

Diploma in Cyber Security

May 2023 – Aug 2023

- Gained hands-on expertise in cybersecurity, including blue team operations, compliance reporting, vulnerability assessment, encryption protocols, and practical experience with **forensic tools** such as **memory analysis, file system forensics, and network analysis**

EXPERIENCE

Software Engineering Intern — Cybersecurity Team

May 2024 – Aug 2024

American Express

North York, ON

- Designed and developed security-focused training modules using **React** to educate developers on **secure coding practices**, reducing security vulnerabilities by 30%.
- Assisted in testing **Java Spring API** and contributed to testing in **E2 and E3 production environments**, ensuring application stability.
- Created a simulated API environment to demonstrate **OWASP Top 10** security threats.
- Automated repetitive security analysis tasks using **Python and Bash**, reducing manual workload by 80%.
- Gained hands-on exposure to **DevSecOps** lifecycle, integrating security principles into CI/CD pipelines.

Software Engineer

Nov 2023 – Jan 2024

Riipen - Radiology Artificial Intelligence Network

- Improved hospital application usability by implementing advanced filtering functionality with **Django** and **React**, increasing user engagement by 25%.
- Collaborated with cybersecurity teams to develop comprehensive **cybersecurity reports**, identifying vulnerabilities and strengthening defenses.

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.
- **Workshop Developer – McMaster Artificial Intelligence Society**: Facilitating workshops for 50+ participants, delivering insights into AI theory, and enhancing understanding through hands-on model building.

PathToCareer - Software Developer

Sept 2024 – Present

- Designed and developed a job board platform from scratch, leveraging **React** for the frontend and **Express.js** for the backend.
- Conducted business planning and research to identify user needs and shape the platform's functionality.

Achievements

- Secured top 7 spot out of 25 teams at the Canada Regionals (Toronto region) – **CyberSci Regionals CTF 2024**.
- Secured 3rd position at Ontario Crack the Code CTF by Splunk 2024.
- Ranked 14th out of 170 teams in the 1st Annual TCM CTF 2023 by MetaCTF.
- Certifications: Pursuing **CompTIA Security+**.

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (Postgres), JavaScript, HTML/CSS, R, Bash

Cybersecurity: Splunk, Vulnerability Assessment, Threat Detection, Encryption Protocols, Incident Response, SIEM, Firewalls, IDS/IPS

Frameworks & Tools: Git, Docker, Node.js, Express.js, RESTful APIs, Django, React