

# Jasraj Singh Johal

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**Actively seeking opportunities starting May / September 2024**

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Computer Science student at McMaster University with a strong programming background (Python, C, Java) and expertise in cybersecurity, including vulnerability assessment and incident response. Proven academic excellence, hands-on Cyber Security Bootcamp completion, and leadership in founding CryptX High School Club's cybersecurity division. Recognized for academic achievements, cybersecurity competition success, and contributions to a scholarly research journal.

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## SKILLS

**Programming Languages:** (Python, C, Java, Django, Flask, React, Nodejs, Javascript, HTML, CSS, MySQL, ELM, Haskell, Bash, MATLAB, Octave),

**Microsoft Suite:** (PowerPoint, Excel, Word, Teams, OneNote),

**Cybersecurity:** (Vulnerability Assessment, System Security, CTFs (Capture The Flag), Secure Protocols, Network Infrastructure, Computer Repair, Diagnostics, Troubleshooting, Wireshark, PRTG, NIST 800, ISO 27001, GRC Frameworks, Risk Management Frameworks, Data Analysis, Training and Development, Crisis Management, Relationship Building, Risk Mitigation),

**Collaboration and Teamwork:** (Hackathon Organizer, Cybersecurity Mentor, Git, Collaborative Coding)

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## EDUCATION

**Bachelor of Applied Sciences, Computer Science,**  
McMaster University, Hamilton, CA

Sep 2022 – 2026 (expected)

**Diploma in Cyber Security, Lighthouse Labs**

May 2023 – Aug 2023

- Completed a 12-week Cyber Security Bootcamp, acquiring hands-on expertise in foundational cyber security principles, network management, scripting in Python and BASH, blue team operations, compliance reporting, vulnerability assessment, incident response, encryption protocols, and threat modelling.

**Introduction to Python for Data Science (DAT208x),**  
Microsoft Corporation, edX

2020

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## EXPERIENCE

**McMaster University Department of Economics,**  
**Student Invigilator**  
Hamilton, CA

Sep 2023 – present |

- Invigilated multiple course midterms for the Department of Economics.
- Received positive feedback from faculty and students for professionalism and attentiveness.

**McDonald's, Crew Member**  
*Dundas, CA*

May 2023 – present |

- Proficient in providing outstanding service, accurately managing cash transactions, and ensuring a tidy work environment. Effective communicator with strong teamwork abilities.

**CryptX High School Club, Founder, Led the cybersecurity division**  
*Jaipur, India*

Apr 2020 – Sep 2022 |

- Turing Fest: Organized and moderated a week-long intraschool Hackathon with 9 events, involving 180+ student participants in cybersecurity and other technology areas.
  - "The Right Click" Newsletter: Editor in Chief, authored various articles on diverse technology topics and oversaw the newsletter organisation
  - Mentorship: Guided over 200 students in grades 8-12 in computer science, with a focus on Cybersecurity (Ethical Hacking and Networking)
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## **PROJECTS**

Cyber Post Incident Report & Presentation  
*Lighthouse Labs Final Capstone Project*

May 2023

- Investigated extortion email, confirmed data breach, presented timeline, response, and prevention recommendations. Led Wireshark analysis on web server and database traffic, identifying incident origin. Examined web server logs to pinpoint breach moment. Analysed attacker's commands on database, revealing actions. Developed incident response playbook. Offered post-incident PCI compliance and cybersecurity recommendations.
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## **ACHIEVEMENTS**

- Awarded **Engineering Research Award, Dean's Excellence Award, and Provost Entrance Scholarship** at **McMaster University**, reflecting exceptional academic performance and dedication in engineering studies.
- Participated and secured 14<sup>th</sup> rank out of 170 teams in the 1st Annual TCM Invitational CTF by MetaCTF.
- Global OSINT Search Party CTF contestant, showcasing competitive spirit and technical expertise.
- Ranked **8th in International Informatics Olympiad 2020**, showcasing advanced problem-solving skills
- Achieved **6th place in Amity University's Techashi's War - Coding & Programming Competition**
- Published an article on "Importance of Cybersecurity" in the Scholarly Research Journal for Interdisciplinary Studies

## **COMMUNITY SERVICE**

- Regularly conducts online classes for elderly persons on mobile banking and other online life skills.