

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

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**, resulting in a 30% reduction in security vulnerabilities in applications
- Created a simulated API environment to demonstrate **OWASP Top 10** security threats, enhancing awareness and hands-on understanding among development teams.
- Automated repetitive security analysis tasks with **Python and Bash** reducing manual workload by 80%
- Acquired a comprehensive understanding of the **DevSecOps** lifecycle, integrating security principles directly 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**, leading to a 25% increase in user engagement.
- Collaborated with cybersecurity teams to develop comprehensive **cybersecurity reports**, identifying potential vulnerabilities and recommending mitigations to strengthen system 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.

CryptX High School Club, India | *Founder/Head of IT Department*

Apr 2020 – Sept 2022

- Led a cybersecurity and technology club, educating 200+ students on ethical hacking and data security, fostering a 95% increase in STEM interest

Achievements

- Ranked 14th out of 170 teams in the 1st Annual TCM CTF 2023 by MetaCTF.
- Secured a top 14 spot out of 50 teams at the Canada Regionals – **CyberSci Regionals CTF 2023**.
- Certifications: Pursuing **CompTIA Security+**.

TECHNICAL SKILLS

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

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

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

Soft Skills: Problem-Solving, Adaptability, Communication, Leadership

Issued To:
Jasraj Johal

Name: Student ID No: OEN: Birth Day: Print Date:
Jasraj Johal 400434346 29 June 12 August 2024

Transcript valid only if bearing the Registrar's Signature.

Beginning of Undergraduate Career Record

--- 2022 Fall ---

Program: Engineering Degree Seeking
Plan: Computer Science 1 (Year One)
Term Honours: The Provost Entrance Scholarship for International

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 1JC3	Intro To Comput Thinking	3.00/3.00	A-
COMPSCI 1MD3	Introduction To Programming	3.00/3.00	B
ECON 1BB3	Introductory Macroeconomics	0.00/0.00	W
MATH 1B03	Linear Algebra 1	3.00/3.00	C-
MATH 1ZA3	Engineering Mathematics I	3.00/3.00	C-
WHMIS 1A00	Intro To Health And Safety	0.00/0.00	COM

Totals

	Attm./Earned Units	GPA Units	Total Points	GPA
Term Totals	12.0/12.0	12.0	78.0	6.5

--- 2023 Winter ---

Program: Engineering Degree Seeking
Plan: Computer Science 1 CO-OP (Year One)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 1DM3	Discrete Math for Comp Sci	3.00/3.00	B-
COMPSCI 1XC3	Development Basics	3.00/3.00	A-
COMPSCI 1XD3	Intro to Sfwr Using Web Prog	3.00/3.00	A
ENGINEER 1EE0	Engineer Co-op Prm	0.00/0.00	COM
MATH 1ZB3	Engineering Mathematics II-A	3.00/3.00	C-
SUSTAIN 1S03	Intro To Sustainability	3.00/3.00	A+

Totals

Name: Jasraj Johal Student ID No: 400434346 OEN: Birth Day: 29 June Print Date: 12 August 2024

Term Totals	Attm./Earned Units 15.0/15.0	GPA Units 15.0	Total Points 132.0	GPA 8.8
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Academic Standing: Good Standing

--- 2023 Spring/Summer ---

Program: Engineering Degree Seeking
Plan: Computer Science 1 CO-OP (Year One)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
ANTHROP 1AA3	Sex, Food & Death	3.00/3.00	A-
ENVIRSC 1C03	Climate, Water and Environment	3.00/3.00	C-

Totals

Term Totals	Attm./Earned Units 6.0/6.0	GPA Units 6.0	Total Points 42.0	GPA 7.0
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--- 2023 Fall ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 2C03	Data Struct & Algorithms	3.00/3.00	C-
COMPSCI 2GA3	Computer Architecture	3.00/3.00	A-
COMPSCI 2LC3	Logical Reasoning: Comp Sci	3.00/3.00	C
COMPSCI 2ME3	Intro To Software Development	3.00/3.00	A
STATS 2D03	Intro To Probability	3.00/3.00	C+

Totals

Term Totals	Attm./Earned Units 15.0/15.0	GPA Units 15.0	Total Points 108.0	GPA 7.2
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Name:
Jasraj Johal

Student ID No:
400434346

OEN:

Birth Day:
29 June

Print Date:
12 August 2024

--- 2024 Winter ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 2AC3	Automata and Computability	3.00/3.00	C+
COMPSCI 2DB3	Databases	3.00/3.00	A-
COMPSCI 2SD3	Concurrent Systems	3.00/3.00	B-
COMPSCI 2XC3	Algorithms and Software Design	3.00/3.00	A
HTHSCI 1M03	Foundations of Data Science	3.00/3.00	A-

Totals

	Attm./Earned Units	GPA Units	Total Points	GPA
Term Totals	15.0/15.0	15.0	132.0	8.8

Academic Standing: Good Standing

--- 2024 Spring/Summer ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
ENGINEER 2EC0	Engineering Work Term (Work Term Details Company: American Express Location: Dundas, ON Position : Co-op Student Start Date: 2024-05-01 End Date: 2024-08-31)	0.00/0.00	

--- 2024 Fall ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 3MI3	Prncpl: Programming Languages	3.00/0.00	

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COMPSCI 3SH3	Operating Systems	3.00/0.00
COMPSCI 4AL3	Applctns of Machine Learning	3.00/0.00
DATASCI 2G03	Scientific Computing	3.00/0.00
SFWRTECH 3CS3	Computer Security	3.00/0.00

--- 2025 Winter ---

Program: Engineering Bach. Comp Sci
Plan: Computer Science CO-OP (Honours Co-op)

Term Enrolment

Course	Title	Attm./Earned Units	Grade
COMPSCI 3AC3	Algorithms and Complexity	3.00/0.00	
COMPSCI 3DM3	Introduction to Data Mining	3.00/0.00	
COMPSCI 3N03	Computer Networks and Security	3.00/0.00	
COMPSCI 3TB3	Syntax-Based Tools & Compilers	3.00/0.00	

End of Undergraduate Career Record

End of Student Unofficial Transcript