

# Rishi Singla

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## SUMMARY

Aspiring software engineer with hands-on experience in full-stack development, Android applications, and UX design. Skilled in both agile team settings and independent, research-driven design projects. Proficient in Java, Python, SQL, and HTML/CSS, with a strong passion for building accessible, user-focused technology solutions.

## EDUCATION

**Honours Bachelor of Science with Major in Computer Science** September 2022 – Present  
*University of Ottawa (GPA: 3.3)* *Ottawa, ON*

- Enrolled in Computer Science, Computer Engineering, Software Engineering and Entrepreneurial courses
- Attained a 4.0 GPA in key courses: Introduction to Computing, Software Engineering and Programming Paradigms

## EXPERIENCE

**Junior Analyst** January 2025 – August 2025  
*ISED, Government of Canada* *Ottawa, ON*

- Conducted **user experience research** through **stakeholder** interviews and review of 30+ legacy documents to identify pain points
- Designed** 50+ Figma prototypes and developed 4 HTML versions to test **accessibility** and **usability improvements**
- Co-led **planning** and **execution** of **usability testing** sessions with 20 participants to validate interface improvements
- Ensured all design outputs aligned with **WCAG 2.2 AA** standard, supporting inclusive public and internal access

**STEM Director** May 2023 – January 2024  
*City of Brampton* *Brampton, ON*

- Strategically planned, organized** and **executed** engaging programs, improving participant retention by **15%**
- Led** a team in developing and delivering STEM programs that engaged over **100** participants
- Maintained** compliance with safety protocols, achieving a **100%** safety record during the program

## PROJECTS

**Spectrum Auctions Website Improvement** | *Figma, HTML/CSS, Javascript* January 2025 – Present

- Designed** interfaces for a **government** website by creating **50+ Figma mock-ups** and **4 HTML prototypes** to modernize the Spectrum Auctions site
- Conducted **usability analysis** and synthesized insights from stakeholder interviews to inform design priorities
- Collaborated with analysts and developers in **agile sprints** to align research findings with design iterations

**ISED's SMT and SMS Redesign** | *Figma* January 2025 – February 2025

- Worked on redesigning key pages on the **ISED Spectrum Management and Telecommunications (SMT)** and **Spectrum Management System (SMS)** websites to improve **visual appeal, clarity, and accessibility**
- Focused on **simplifying** complex government content while maintaining compliance with **federal web standards**

**Hotel Booking Web Application** | *HTML/CSS, Java, SQL, PostgreSQL* January 2024 – March 2024

- Built a **dynamic** hotel booking web application integrated with a **PostgreSQL database** optimized for complex queries
- Reduced** data retrieval time by 20% through **schema optimization** and indexing
- Implemented** distinct user interfaces for customers and administrators, enhancing user experience and administrative control

## TECHNICAL SKILLS

**Programming Languages:** SQL, Java, Javascript, Python, C/C++, HTML/CSS, Golang, Scheme, Racket  
**Developer Tools:** PostgreSQL, Git/Github, Visual Studio, Eclipse, Figma, Tinkercad