

# Harkirat Singh

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## EDUCATION

### Honours Bachelor of Technology in Software Development – Seneca Polytechnic

Toronto, ON | Jan 2023 – Aug 2026 (expected)

Cumulative GPA: 3.8/4 (1x President's Honours List)

Key Coursework: Software Development, Data Structures, OOP, Databases, Web/Mobile Development, Project Management.

## WORK EXPERIENCES

### Cloud Technical Analyst Co-op – Ontario Public Service

Toronto, Ontario, Canada | Jan 2026 – May 2026

- Collaborated with the **Land and Resources I&IT Cluster** to maintain and update **non-compliant LRC applications**, consolidating data from platform leads and ensuring accurate records in **Excel** and **online OPS systems**.
- Created **CRQs** and updated **server values** in **Synergy Power Apps**, improving **cluster's compliance ratings by over 20%**.
- Supported **cloud and infrastructure operations** leveraging **Azure, Power Apps**, and **SharePoint** to enhance **data integrity** and streamline **operational workflows**.
- Contributed to a culture of **continuous improvement and collaboration**, supporting the ministry's mission to deliver secure, efficient, and modern digital services to Ontarians.

### Senior Technologist Co-op – ITS Information Solutions @Seneca Polytechnic

Toronto, Ontario, Canada | May 2025 – Aug 2025

- Migrated 3+ legacy Angular apps, **boosting performance by 25%** and **enhancing long-term maintainability**.
- Developed and integrated a custom Node.js API** that **automated the data retrieval** process from Google Sheets, cutting manual processing time by **5 hours/week**.
- Redesigned 10+ UI components** to be fully mobile-responsive, **improving accessibility scores by 15%**.
- Managed the full code lifecycle** for 2 key projects using **Azure DevOps**, facilitating over 30 pull requests and collaborative code reviews to ensure high code quality.
- Executed QA testing** on 5+ applications, identifying 20+ bugs to ensure 99% functional reliability.

### Software Developer Intern – EPHEC

Brussels, Belgium | June 2024 – July 2024

- Selected to represent **Seneca Polytechnic** internationally as part of the **Faculty Led Program Abroad** at EPHEC, Belgium.
- Developed a cross-platform mobile app**, *The Pisslin' Guide*, using **React Native, Expo Go, Google Maps API, and Firebase**, enabling users to locate nearby restrooms with real-time map integration.
- Collaborated with a multicultural team** from Belgium and Denmark, **earning 2nd place** out of 10+ teams in a competitive international **project showcase** for innovation and usability.

## PROJECTS

### The Pet Adopt App | React Native, Expo, Expo Router, Firebase Firestore, Clerk, TypeScript | [GitHub](#)

- Led a 4-member team to develop a cross-platform **Pet Adoption App** using **React Native, Firebase Firestore, Expo**, and **Clerk**.
- Built and integrated the **backend, database, and authentication system**, ensuring secure and real-time data handling.
- Collaborated on **frontend UI components**, enabling seamless **pet browsing, filtering, and adoption workflows**.

### Portfolio Website | JavaScript, React, Next.js, Express.js, Node.js, Tailwind CSS, Formspree | [Live Demo](#) | [GitHub](#)

- Developed a personal portfolio site with **Next.js** and **React**, highlighting projects and skills, optimized for **performance** and **SEO**.
- Implemented **responsive design** with **Tailwind CSS** to ensure optimal user experience across all devices.
- Implemented **server-side rendering (SSR)** for faster initial load times and better search engine visibility.

### Metropolitan Art Explorer | JavaScript, React, Next.js, Node.js, Bootstrap, Vercel | [Live Demo](#) | [GitHub](#)

- Developed a platform for exploring art and museum artifacts with **advanced search, favorites**, and **search history management**.
- Optimized app performance using **lazy loading**, reducing initial load time by **40%** and improving **user retention**.
- Deployed on **Vercel** with **responsive design** optimized for both mobile and desktop environments.

## SKILLS

- Technical Skills:** Power BI, Power Apps, AWS, Azure, VMware, API integrations, PC/Server hardware, Microsoft 365
- Programming Languages:** Python, C, C++, JavaScript, TypeScript, HTML, CSS
- Web Development:** React.js, Next.js, Node.js, Express.js, Angular.js, Bootstrap, WordPress
- Mobile Development:** React Native, Expo, Firebase Authenticator, Kotlin
- Databases:** MongoDB, MySQL, PostgreSQL, Oracle, Microsoft SQL Server, Firebase Firestore, Azure Data Studio
- IT & System Tools:** Azure DevOps, Docker, Jira, Visual Paradigm, Virtual Machines, Linux, Agile, Scrum, Kanban, Figma
- Networking & Security:** Network protocols (HTTPs/TCP/UDP), Debugging, API security, Authentication