

# Khyle Sewpersaud

416-848-5799 | [khylesewpersaud@gmail.com](mailto:khylesewpersaud@gmail.com) | [linkedin.com/in/khylesewpersaud](https://linkedin.com/in/khylesewpersaud) | [github.com/KhyleSewpersaud](https://github.com/KhyleSewpersaud)  
[khylesewpersaud.com](https://khylesewpersaud.com)

## EDUCATION

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### Queen's University

Kingston, ON

*Bachelor of Computing (Honours)*

*Expected April 2026*

- **Relevant Coursework:** Data Structures, OOP, Relational Database Management Systems, Systems Level Programming, Computer Architecture
- **GPA:** 4.0/4.3 - Dean's Honour List

## EXPERIENCE

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### Shopify

September 2024 – Current

*Software Engineer Intern*

*Toronto, ON*

- Developed APIs using **Ruby on Rails and GraphQL**, enabling integration of subscription services for third-party developers
- Strengthened reliability of first-party subscriptions app by refactoring **75%** of test files and introducing 5 more using React Testing Library and Vitest
- Implemented 10+ front-end features using **React and TypeScript**, improving user UI/UX and development experience

### The Perk Lab

November 2023 – May 2024

*Software Developer Intern*

*Kingston, ON*

- Accelerated data entry speed by **14x** through **Python** scripts using Selenium and BeautifulSoup to scrape Google Scholar
- Enhanced website functionality for **30+ researchers** to manage **1000+ publications** by redesigning website using HTML, CSS, and PHP
- Achieved consistent and reliable script execution through application containerization using **Docker**, establishing daily automatic runs in GitHub Actions

## PROJECTS

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[Water Watch](#) | *React, JavaScript, Docker, GitHub Actions, Vitest*

April 2024 - July 2024

- Built a responsive web application with over **200 users** for tracking daily water intake using React, improving user hydration habits
- Deployed a robust **CI/CD pipeline** with GitHub Actions, reducing launch time to just **16 seconds** and ensuring seamless updates to an **AWS EC2** instance
- Ensured exceptional code quality and maintainability by achieving **95%** code coverage through unit and integration tests using Vitest

[Queen's Web Development Club](#) | *React, Node.js, Express.js, MySQL*

September 2022 - Current

- Developed a full-stack application by using **React, Node.js, MySQL**, and Stripe API, implementing user authentication and payment systems
- Designed a curriculum teaching **350+ students** modern web development technologies
- Managed a team of over 20 members, overseeing key operations like hiring, outreach, and the development of over 13 projects

[Manulife Financial Predictive Model](#) | *Python, Pandas, Sci-kit Learn, LLMs*

September 2023 - April 2024

- Constructed predictive models to determine if a customer would be interested in a loan with **90% accuracy** for Manulife Financial by fine-tuning a Large Language Model
- Presented models at the Canadian Undergraduate Conference on Artificial Intelligence by visualizing results with Matplotlib, Seaborn, and SHAP

## TECHNICAL SKILLS

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**Languages:** Python, TypeScript, JavaScript, Ruby, Java, C/C++, HTML, CSS, SQL, Bash, PHP

**Libraries and Frameworks:** React, Next.js, Node.js, Express.js, Tailwind, jQuery, Scikit-Learn, Pandas, Bootstrap, Ruby on Rails, Jest

**Tools:** REST APIs, GraphQL, Postgres, MongoDB, Git, Selenium, Postman

**DevOps:** Google Cloud Platform, Amazon Web Services, GitHub Actions, Docker, CI/CD, Bugsnag, Datadog