# SARTAJ GREWAL

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## TECHNICAL SKILLS

**Languages**: Java, Python, C, C++, C#, SQL, PHP, JavaScript, TypeScript, HTML, CSS
**Frameworks**: React.js, Node, MySQL, Ruby on Rails, Git, ASP.Net

## EXPERIENCE

### Haletale
*Software Developer Intern*
Toronto, ON
*August 2024 – Oct 2024*

- Developed and optimized front-end features for Haletale's co-living platform using **ReactJS** and **JavaScript**, improving page load times by **15%** and enhancing user workflows for a seamless experience.
- Collaborated in an Agile environment to design reusable ReactJS components and implement performance optimizations, enabling the platform to handle increase in user traffic.
- Tested and deployed **new features** and resolve critical issues to ensure smooth feature integration and platform reliability in the live environment.

### ReInvestWealth
*Software and Sales Researcher Intern*
Montréal, QC
*May 2024 – July 2024*

- Researched software development techniques and system architectures to identify innovative solutions for enhancing efficiency and scalability in ReInvestWealth's accounting platform, focusing on optimizing workflows and improving system performance.
- Prepared detailed technical reports and recommendations on tools and frameworks, providing actionable insights that guided the development team in implementing new features and enhancing user experience.

### Your Sweet Spot Life
*Web Application Developer Intern*
Calgary, AB
*Dec 2023 – Mar 2024*

- Developed and implemented a scalable, responsive **web application** using **ReactJS** and **TypeScript**, optimizing performance and ensuring cross-platform compatibility through modern design principles.
- Redesigned the platform's architecture by integrating a **CRM system** with real-time data synchronization, improving customer workflows and enhancing data accuracy across the system.
- Led end-to-end development cycles, including feature **implementation, debugging, and deployment**, ensuring seamless functionality and reliability in live environments

## PROJECTS AND CLUBS

### WealthWay | *Finance Tracking Application - C++*
Sept 2024 – Present

- Developed a **C++** application implementing core features like expense tracking, category management, and graphical report generation.
- Created **UML diagrams** (Class, Sequence, Use Case) to model system architecture and ensure alignment with implementation through **Git version control**.

### Healthcare Database System | *SQL, PHP, HTML/CSS*
June 2024 – August 2024

- Built a **PHP** and **SQL** based web app with full CRUD functionality for managing **relational data** (patients, doctors, and nurses).
- Designed optimized **SQL queries** using JOIN, GROUP BY, and FOREIGN KEY constraints to ensure data integrity and implement key features like identifying unassigned doctors and tracking nurse assignments.

### ProBot | *Game Development - Python*
Sept 2023 – May 2024

- Developed an educational game to teach coding fundamentals to new programmers through task-based challenges, applying object-oriented principles to design engaging gameplay where players guide a robot to complete tasks like navigating and picking up objects.
- Implemented efficient data storage using pickle files to track player progress and scoring, encouraging optimal coding practices by rewarding solutions completed with minimal lines of code.

## EDUCATION

### Western University
*Honours Bachelor of Science in Computer Science*
London, ON
*Sept. 2022 – Current*