

SANGWOOK LEE

647-928-8740 leesangwook4517@gmail.com [linkedin.com/in/lee-sangwook](https://www.linkedin.com/in/lee-sangwook) www.sangwook.ca

EDUCATION

University of Toronto - Honours Bachelor of Science, Computer Science

Sept 2019 - Dec 2024

SKILLS

Languages C#, Python, TypeScript, JavaScript, PHP, HTML, CSS, Java, C
Technologies React, Angular, PostgreSQL, MySQL, Android Studio, Laravel, Flutter, Gradle

EXPERIENCE

Software Engineering Intern

September 2023 - August 2024

Geotab Inc.

Oakville, ON

- Reduced data search load times by **75%** via implementing server-side cursor-based pagination with **Angular** and **PostgreSQL**
- Improved REST API call response times by **78%** and resolved potential security vulnerabilities by restructuring endpoints and associated DTOs with **TypeScript**
- Streamlined the schema of a production **PostgreSQL** database, reducing database size by **10%**
- Optimized background process **SQL** queries by **90%** via streamlining JOIN operations, and identifying and implementing 5+ new indexes with **C#**
- Enhanced filter search UX by building a multiple-instance search feature with **React** and TypeScript
- Ensured code reliability through developing **unit tests** for new code additions, covering both the backend and frontend stacks with C# and **Cypress**

Software Engineering Intern

April 2022 - December 2022

Codepxl Inc.

Toronto, ON

- Designed and developed data manipulation algorithms using **MySQL** and **PHP**, resulting in a **60x** improvement in table management processes on a production database
- Developed **over 70** frames of custom UI and core functionality using **JavaScript** and **CSS**, delivering high-quality pages that exceeded the client's requirements
- Built secure and efficient **REST APIs** for user authentication and access control using **Laravel Passport**, meeting industry-standard OAuth2.0 requirements
- Successfully delivered a **React Native** mobile app through all stages of the development cycle, delivering the project **2 weeks** ahead of the client's deadline
- Analyzed user requirements and worked with designers and clients to create detailed entity-relationship diagrams (ERDs) for **over 40** tables, resulting in a comprehensive and efficient database structure

PROJECTS

Minesweeper Together

[Link](#)

Personal project to make a multiplayer minesweeper with React, with all the bells and whistles of classic minesweeper

- Delivered high-quality software with user-friendly, scalable design using **React** and **Socket.io**

SportCred

[Slides](#)

Mobile app project with real clients for sports pick-ems and discussions

- Created a seamless mobile UI that received a 4.8/5 client rating with **Android Studio** and **Flutter**
- Developed a **Python-based** backend with **Gradle**, delivering clean, reusable, and maintainable code that reduced bugs by 40% during testing