

# Rajanbir Singh

Full Stack Developer, 4<sup>th</sup> year Student, graduating SU 2021

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## Work Experience

### ○ BackEnd Java Developer - Intern

Walletifai Inc. (startup) | Aug 2020 – Jan 2021

- Worked in a team of 4 to build **RESTful API** for a financial Mobile Application
- Using **Java 8, Spring Boot, Spring MVC, Servlet, Hibernate, MySQL, JDBC**
- Utilized good degree of **SQL** proficiency to slash recurring queries run-time by **30%**
- Integrated "**Plaid**" API to handle user's financial info and proposed design solutions
- Implemented webhooks to instant fetch users' transactions data
- Implemented **server-side caching** mechanism to improve response time

### ○ Student Tutor – Excel Lasso

York University, Toronto | Jan 2019 – Jun 2019

- Instructed up to 10 students in basic **Web Development, JavaScript, HTML, CSS**.
- Co-ordinated **lab instructions** & provided anonymized class reports.

## Projects

### ○ Online Bookstore (Eshop)      - [Website](#) | [Github](#)

- Developed full backend from scratch; online application using **Java/Spring Boot** & **IBM DB2 cloud database**, and front-end with **ReactJS, Redux**.
- Scalable **web app**, handles user signup/login, cart, shop, payment, admin functionality
- AWS Amplify/Heroku/IBM cloud deployment: <http://bit.ly/38AGhS6>

### ○ Voice Alarm (Android app)      - [Playstore](#) | [Github](#)

- A unique Alarm Clock app that requires the user's voice input to dismiss the alarm.
- Technologies: **Java, SpeechRecognizer API**, integrated **MySQL**, multithreading, **Android SDK**

### ○ Grades Alerter (Tool)      - [Github](#)

- Automatically checks and notifies if new grades have been posted for courses.
- Technologies: **Java, Selenium WebDriver** (for automation)

### ○ Brick Breaker (Game)      - [Website](#) | [Github](#)

- Online game made using Javascript and HTML Canvas.

### ○ *U of Alberta Hackathon by Intuit*      - [Github](#)

- **JobsAutomated** – A webapp (in team of 3) made using **ReactJS, Selenium, NodeJS** and Lever **public API** that automates the redundant process of applying to multiple jobs postings.



## Technical Skills

- **Back-End**
  - Java • Spring Boot • JDBC • C/C++ • JQuery • JSON, XML • NodeJS • Relational Databases (SQL Proficiency) MySQL, PostgreSQL, IBM Db2 (cloud) • AWS (basic) ecosystem
- **Front-End**
  - HTML 5 • (S)CSS • Bootstrap • JavaScript • React.JS (and Redux)
- **Tools**
  - IntelliJ • Visual Studio Code • Eclipse • Android Studio • Version control (Git) • Postman • Vim, Emacs • Npm, Maven, Gradle • Bash • Linux, Unix, MacOS, Windows
- **Frameworks/Testing/Other**
  - Android frameworks • Junit • Jest • Selenium (Web automation, testing) • Protractor (Angular Testing) • Jasmine



## Education

- **York University**  
*Toronto, ON | 2017 – present*  
**Bachelor's Honors in Computer Science**
  - Advanced Object-Oriented Programming (Java, C++)
  - Data Structures and Algorithms, Design and Analysis
  - Database systems, Data mining
  - User Interfaces, Responsive Web Development
  - Building E-commerce systems ...and more.



## Volunteer

- **Partner and member**  
CS HUB (university club) | 3 mo.
- **Peer Mentor & Moderator**  
UNHack | 2 mo.