

# Sukhwinder Dhaliwal

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<https://ssdhaliwal.com>

## SKILLS

Languages    Java | TypeScript | Python | Golang | SQL  
Technologies    Spring Boot | REST | GraphQL | gRPC | JUnit | kafka | Docker | Kubernetes | React | Next.js | CSS  
Databases    PostgreSQL | MySQL | Cassandra | MongoDB | Redis

## EXPERIENCE

### HCLTech

Jun 2023 - Present

Vancouver, BC

#### Software Developer

- Built micro-services responsible for agent management and proof-of-payment using Java and Spring Boot under unified portal initiative which leads to 15% reduction in processing time for proof-of-payment.
- Migrated core database from PostgreSQL to Apache Cassandra, realizing a 30% scalability boost and a 20% improvement in write operations performance.
- Implemented Kafka for Western Union's notification system, ensuring reliable, real-time message delivery.
- Led a team of four in the development of backend microservices as part of Imprint POC, ensuring seamless integration with the frontend and successful deployment on AWS.

### Realtor.com

Sept 2021 - Aug 2022

Vancouver, BC

#### Software Engineer Co-op

- Streamlined the user experience by implementing an auto-complete search component and sticky search bar for the homepage using React.js that leads to 20% more return users to search.
- Improved search results by adding new REST API endpoints to access the database with GraphQL.
- Contributed to the development cycle by deploying code to production twice a month and closely monitoring and diagnosing core web vitals to resolve related issues.
- Implemented lazy loading for non-critical components and employed multiple formats for hero images, yielding a 20ms acceleration in page load time.
- Collaborated on a typescript migration and implemented cypress E2E testing and integration testing, resulting in over 95% unit test coverage.

### CJSF Radio

Apr 2021 - Jul 2021

Burnaby, BC

#### Application Developer Intern

- Added new fragments for selecting favorite shows and sending notifications using react-native.
- Optimized performance by minimizing the number of re-renders and reducing memory leaks.
- Helped new team members by providing support in setting up the project locally, resolving any associated issues.

## PERSONAL PROJECTS

### Booking System | Microservices

<https://github.com/sukhsfu/Booking-System>

- Developed an Appointment Booking platform, organized into six distinct microservices: API Gateway, Identity, Provider, Client, Appointment and Frontend. Launched into Google Kubernetes Cluster using Docker.
- Designed API Gateway with an authentication filter, integrating it with the Identity Service for user registration, JWT token generation, and validation.
- Built Provider and Client microservices to manage service providers and client information respectively, storing all data on Amazon RDS.
- Developed a front-end service with React and Next.js, incorporating internal route handling for communication with other microservices and enabling both server and client-side rendering.
- Utilized: Java, Spring Boot, Spring Data Jpa, React, Nextjs, TypeScript, Docker, Kubernetes, AWS RDS

### Flow | Android App

<https://github.com/sukhsfu/PersonalProject>

- Published an android app using Java that allowed users to post memes, follow other users, like memes, and earn points for each like received.
- Enhanced functionality by integrating Firebase for real-time post syncing, authentication, and server storage.
- Implemented a cloud function to save memes in a queue data structure and automatically delete older memes.
- Utilized: Java, JavaScript, Firebase, Android Studio, facebook ads

## EDUCATION

### Bachelor of Science - Computer Science

Jan 2018 - Dec 2022

Simon Fraser University

Burnaby, BC