TANJODH HAYER

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TECHNICAL SKILLS

Languages	Java, Python, C++, C, JavaScript, SQL, Rust, Haskell, Koltin
Frameworks	React, JUnit, Express.js, Node.js, Spring Boot, SQLite
Tools	Git, Heroku, Redis, PostgresSQL, Firebase, Maven, Figma, MSSQL

PROJECTS

DailyDime Financial App Kotlin, Java, Firebase

- Developed a mobile app in a team for managing personal finances through visualizations and illustrations.
- Utilized Firebase for secure user authentication and saving financial data for user-specific accounts.
- Incorporated Kotlin MVVM architecture for a modular structure, creating an easier way of adjusting the codebase.

LightNovel Recommender Java, Javascript, HTML, Python, Spring Boot, MSSQL

- I leveraged Redis, an in-memory data store, to improve performance and speed up data retrieval by caching frequently accessed data. This resulted in reduced database queries and improved application responsiveness.
- Configured master-slave architecture using log shipping. Ensuring data redundancy and high availability by automatically shipping transaction logs from the master database to the slave database, enabling quick failover and data recovery.
- Incorporated pagination functionality to efficiently display large datasets allowing users to navigate through the list of light novels in smaller, manageable chunks, enhancing user experience and improving performance.

BGC Engineering Inventory System Javascript, React, Express.js, PostgresSQL, Node.js, Heroku

- Collaborated with BGC Engineering personnel to develop and deploy a custom inventory management system that leveraged barcode data to create an inventory system that reduced the time spent handling each stock through scanning and CRUD functionality
- Integrated the system with PostgreSQL, leveraging its reliability, data integrity, and robust query support. Seamlessly stored, retrieved, and managed data, enabling accurate inventory tracking and analysis.
- Integrated the Google Maps API to display a visual graphic of the item's location and simultaneously authorized and authenticated users with Passport.js and BCrypt hashing

Consumable Item List Java, Swing, Spring Boot

- Developed a REST API using Spring Boot and a Swing-based GUI to facilitate a seamless server-client communication for managing consumable user data
- Utilized Object Oriented Programming and a MVC architecture to accommodate the type of consumables, ensuring redundancy is limited

EDUCATION

Simon Fraser University   Burnaby, BC

Bachelor of Science in Computer Science   Sept. 2020 - Present