

Tanjodh Hayer

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EDUCATION

Simon Fraser University

Bachelor of Science in Computer Science

September 2020 – June 2025

EXPERIENCE

Software Developer - Royal City Taxi

December 2024 - Present

- Designed, developed, and deployed a new online system to streamline Royal City Taxi's online presence and booking system using React.
- Monitored user engagement via Google Cloud Platform, achieving hundreds of bookings and tens of thousands of impressions.
- Proactively took user feedback and generated acceptance criteria, pitched design to stakeholders, then built automated email confirmation functionality using Nodemailer and Gmail SMTP, sending hundreds of booking confirmations per month
- Implemented secure user authentication and real-time data management using Firebase, supporting account-based service interactions.
- Integrated Google Maps API for accurate location selection, enhancing the user experience with address autocomplete and distance-based logic.
- Provided ongoing maintenance, feature updates, and technical support post-launch, including managing hosting, bug fixes, and client-driven enhancements.

Computer Science Tutor

September 2024 - December 2024

- Provided one-on-one and group tutoring sessions to teach foundational Python programming concepts, covering syntax, data types, control structures, and key data structures (e.g., lists, dictionaries)
- Introduced foundational machine learning concepts, such as supervised and unsupervised learning, and guided students through hands-on implementations of basic models (e.g., linear regression, k-means clustering) using scikit-learn

PROJECTS

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

- Launched a strategic Redis implementation that accelerated data access speeds; this initiative directly contributed to a 20% decrease in wait times for responses, enhancing overall service efficiency and satisfaction.
- Configured master-slave architecture using log shipping, ensuring data redundancy and high availability by automatically shipping transaction logs from the master to the slave database, enabling quick fail-over 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, PostgreSQL, Node.js, Heroku*

- Engineered an advanced inventory management solution that incorporated barcode scanning capabilities alongside CRUD functionality, significantly decreasing manual entry errors for the company's entire supply chain team.
- Integrated the system with PostgreSQL, leveraging its reliability, data integrity, and robust query support, 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.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL, TypeScript

Frameworks: React, Next.js, Node.js JUnit, Express.js, Spring Boot, SQLite

Developer Tools: Git, Vercel, Heroku, Redis, Jenkins, PostgreSQL, Firebase, Figma, MSSQL, Google Cloud Platform