Tanjot Singh

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EDUCATION

Bachelor of Science - Computer Science   May 2021 - Dec 2025
University of Victoria   **GPA: 3.86 / 4.0**

WORK EXPERIENCE

Software Developer (Automation) - Co-op   May 2023 - Aug 2024
BC Pension Corporation   Victoria, BC

- Built and maintained a **UI regression suite** in **TestComplete**, writing **Python**-based automated tests and shared utility modules to reduce flakiness and test maintenance.
- Helped **develop** and **test** internal **REST APIs**, using **Python** and **Postman** to verify responses and business logic by cross-checking outcomes with **Oracle PL/SQL** queries.
- Used complex **SQL (PL/SQL)** on large **Oracle** database schemas to validate end-to-end data integrity, investigate defects, and support release/regression verification.
- Built performance reporting pipelines in **Python** (**Pandas, NumPy**) to parse large **JMeter** CSV logs, calculate latency/throughput/error metrics, and generate **Matplotlib** charts and Excel-ready summaries for stakeholders.
- Led a **Click-and-Record enablement** initiative as the primary developer: proposed adoption, aligned with QA leads, and trained manual testers through demos and documentation to standardize recorded regression flows.
- Built supporting automation infrastructure and wrote a **Python** parser to convert recorded **TestComplete XML** into human-readable test steps, reducing manual/automation communication overhead and cutting manual regression effort by ∼**30%**.

Teaching Assistant, CSC 361 Networks & Communications   Sep 2025 - Dec 2025
University of Victoria   Victoria, BC

- Led weekly networking labs, explained core concepts in clear steps, and coached students through hands-on exercises; Demonstrating strong leadership and communication in a fast-paced classroom setting.

SKILLS

Programming Languages:	Python, Java, C, Golang, JavaScript
Databases Management:	SQL (Advanced), Oracle PL/SQL, PostgreSQL, MongoDB
Web & Backend:	REST APIs, React, Django, Flask, Node.js, Express.js
Data & Analysis:	NumPy, Matplotlib, Pandas, OpenPyXL
DevOps & Tools:	Docker, Git/GitHub, Nginx, Linux
Automation & Testing:	API testing, Selenium, TestComplete, TestExecute, SessionCreator, JMeter

PROJECTS

Full Stack Day-Trading Platform | (Golang, REACT, Django, MongoDB, Docker)   *Sept 2025 – Nov 2025*

- Designed a microservices based trading platform with clear service boundaries and high-concurrency request handling, emphasizing reliability and performance under load.
- Developed services in Golang (JWT auth) and Django/Flask (profiles, wallets, stock listings, order matching), backed by sharded MongoDB and Nginx load balancing.
- Containerized and scaled services with Docker and health checks, and validated performance/stability using Apache JMeter load testing.

Mini-Me Discord Bot | (Golang, Discord API, YouTube API, Git)   *Jan 2025 – Feb 2025*

- Built a Discord bot with music streaming, interactive commands, playlist management, and user profile features.
- Implemented concurrent audio streaming using goroutines, integrated the YouTube API, and optimized request handling for low-latency responses.

Auction Portal Web Application | (Django, Python, REST, SQLite)   *Oct 2024 – Dec 2024*

- Developed a Django-based auction platform with normalized models for listings, bids, comments, and watchlists using the Django ORM.
- Built REST APIs for browsing with category filters, bidding, commenting, and watchlists, and customized the Django admin for moderation workflows.

ACADEMICS

Notable Coursework: Algorithms & Data Structures, Scalability Engineering, Database Systems

Certificates: HarvardX CS50x (Intro to CS), HarvardX CS50 Web Development, HarvardX CS50 AI, LinkedIn Learning React: Advanced Code Challenges