

Jagdeep Singh

 Surrey, British Columbia |  jag_singh@sfu.ca |  (604)-961-8874 |  [Jagdeep portfolio](#) |
 [Jagdeep Minhas](#) |  [JagdeepMinhas](#)

Education

- Bachelor of Computing Science | Simon Fraser University May 2022 - Present
- Associate of Science: Computer Science | Langara College Sept 2017 - Aug 2019

Technical Work Experience

Computer Network Technician | Skynet Wireless Oct 2019 - Nov 2021

- Designed and installed well-functioning computer networks, connections, and cabling.
- Performed troubleshooting to system failures and identified bottlenecks to ensure long term efficiency of network.
- Evaluated network performance and found ways of improvement.

Technical Projects

Supervised machine learning model using r Feb 2023

- Created feature engineering for multivariate **Hidden Markov models** using Principal Component Analysis on electricity consumption data.
- Trained and tested various HMMs on various time windows, evaluating log-likelihood and BIC for selecting best performing models.
- Conducted anomaly detection using multivariate HMMs on three datasets with injected anomalies.

Underwater Adventures | 2d Arcade video game in Java Dec 2022

- Created GUI for the game using **Java Swing** widget toolkit.
- Used **Maven** as the build automation tool and **Git** as version control system.
- Designed multi- threading algorithms to handle collisions among the different game entities and reduce the lag in the game.

Portfolio Website Jan 2023

- Developed a **ReactJs** interface to showcase skills, projects, and work experience.
- Utilized **React Hooks** for efficient state management.
- Optimized the application by creating reusable components.

Skills & Abilities

Technical skills

- Proficient in **HTML, CSS, JAVA, JavaScript**, and **C++** coding and testing
- Hands-on experience with **React.js, Firebase**, and **Figma**.
- Skilled in using **Git, GitHub, Maven**, and command line tools.

Interpersonal and Communication skills

- Active listener and poses professional verbal and communication skills.
- Highly detail oriented and present high standards of ethics and integrity in all dealing.
- Well adept in working independently as well as a part of a team.