

# Gurnoor Singh Batth

[gskaran3@gmail.com](mailto:gskaran3@gmail.com) | 6478037507 | Abbotsford, BC

[GitHub](#) | [LinkedIn](#) | [Portfolio](#)

## Professional Summary

Recent Computer Information Systems graduate with hands-on experience building software systems using Python, JavaScript, and React. Developed predictive analytics and optimization systems, mobile applications, and TypeScript-based software architectures through academic and personal projects. Strong foundation in programming fundamentals, problem-solving, debugging, and collaborative development using Git. Seeking an entry-level software engineering role where I can contribute to scalable systems and continue learning from experienced engineers.

## Education

*Bachelor of Computer Information Systems*  
University of Fraser Valley

*Jan 2023-Dec 2025*  
Abbotsford, BC

*Computer Programmer Diploma*  
Sheridan College

*Jan 2019-Aug 2020*  
Brampton, ON

## Technical Skills

**Programming Languages:** JavaScript, TypeScript, Python, Java, SQL

**Frameworks:** React, React Native, Redux

**Data & Analytics:** Pandas, NumPy, Scikit-learn, PuLP (Optimization)

**Developer Tools:** Git, GitHub, Expo, Firebase, MongoDB, MySQL

**Concepts:** Object-Oriented Programming, Data Structures, Algorithms, REST APIs, Agile Development

**Software Practices:** Software Development Lifecycle (SDLC), Version Control (Git), Debugging, Code Review

## Personal Projects

**Healthcare Decision Support System - Python, Scikit-learn, PuLP, React**

- Designed and developed an end-to-end healthcare operations Decision Support System combining predictive analytics and optimization
- Implemented demand forecasting models with 80% prediction intervals using historical data
- Built scenario-based staffing optimization using linear programming (PuLP solver)
- Developed Monte Carlo simulations to estimate staffing risk and shortfall probability
- Built React interface to visualize operational metrics including cost, coverage, and forecast scenarios

### **Momentum – An Android Fitness App - *React Native, Expo, Firebase***

- Built an Android fitness application enabling workout tracking and goal management
- Implemented modular component architecture and state management for maintainability
- Integrated Firebase backend services for data storage and user functionality
- Configured development builds and debugging workflow using Expo

### **Memory Match Game - *React + TypeScript***

- Developed browser-based memory game using React and TypeScript
- Implemented software design patterns including Singleton, Observer, and Strategy
- Designed modular architecture separating models, controllers, services, and UI components
- Implemented persistent game statistics using browser LocalStorage

### **Portfolio Website - *HTML, SCSS, JavaScript, Bootstrap, jQuery***

- Built a fully responsive single-page portfolio site showcasing projects, certifications, and experience
- Implemented dynamic UI features including filtering (Shuffle.js), typed text effects, dark/light mode, and parallax animations
- Integrated EmailJS for functional contact form handling
- Structured modular SCSS architecture with compiled CSS workflow

## **Work Experience**

### **Owner/Manager – 1441711 B.C. Ltd.**

Sep 2023 – Present

- Manage end-to-end business operations including scheduling, client communication, budgeting, and service delivery
- Coordinate project timelines and resource allocation to ensure efficient execution
- Resolve customer issues and implement process improvements to enhance service quality
- Maintain documentation, invoices, and operational records with high accuracy
- Lead and supervise team members, providing direction and performance feedback

### **Customer Service & Leadership Experience**

Subway, Art's Custom Woodcrafting, Gap Factory, Security Roles

- Delivered high-level customer support in fast-paced, high-pressure environments
- Troubleshoot service issues and implemented solutions to improve customer satisfaction
- Maintained compliance with operational procedures and documentation standards
- Managed shift operations, staff coordination, and workflow efficiency
- Prepared incident and activity reports (security roles), demonstrating attention to detail and accountability

