

SHUBHAM VERMA

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Education

Trinity Western University

Bachelor of Science - Computing Science

April 2027 (Expected)

Languages: C#, C++, Dart, Java, JavaScript, Python, SQL, Swift

Tools: AWS, Firebase, Figma, Git, Jupyter Notebook, LLMs, Unity

Relevant Coursework: DS A, ML, AI, DBMS, Computer Vision, Computer Graphics, Software Engineering, Simulation & Modelling, Probability & Statistics, Discrete Mathematics, Computational Data Science.

Experience

President | TWU MET (Mathematics Engineering Technology) Club

September 2025 – Present

- Lead a multidisciplinary student club focused on **mathematics, engineering, and computer science**.
- Organized technical events, workshops, and hackathons to build hands-on skills.
- Coordinated with faculty and industry speakers to enhance student learning opportunities.

Globalink Mentor | Mitacs Canada, Langley BC

April 2024 - September 2024

- Mentored research interns from **8 countries**, providing personalized guidance to help them adapt to new academic and cultural environments, ensuring smooth onboarding and fostering cross cultural collaboration.
- Guided interns through local research practices and academic norms, enhancing their productivity and confidence navigating unfamiliar systems.

Electrical Sales Associate | Home Depot Canada, Langley BC

April 2024 – September 2024

- Assisted customers in selecting electrical products and explaining wiring, circuits, and power ratings, contributing to an average of **\$40K+ in daily** department sales.
- Provided troubleshooting advice for basic electrical issues, ensuring customer safety and problem resolution.
- Maintained organized inventory and displays, improving accessibility and customer experience in the electrical section.

Projects

Workforce Management System (Role: Developer)

- Developed a dynamic web-based workforce management platform as part of a course project using SQL, PHP, HTML, and CSS, enabling workers to log hours, accept jobs, and clients to view assigned crews in real time.
- Designed and implemented the database structure and user authentication system, ensuring secure and efficient interaction between users.
- Demonstrated improved workflow organization and real-time visibility compared to traditional manual tracking approaches through a functional prototype.

Food Donation Platform (Role: Scrum Master)

- Led agile development of a centralized food donation platform for **Food Link Society Canada**.
- Developed a backend data management system for tracking inventory and coordinating real-time operations across multiple users.
- Streamlined food collection by enabling volunteer coordination and real-time admin monitoring.

Activities

NASA Space Apps 2025

October 2025

- Developed a **data-driven simulation system** integrating real-time weather data (NASA POWER) to model environmental conditions and resource usage.
- Designed a Python-based backend to model crop growth, soil moisture, and soil fertility, enabling realistic environmental simulation.
- Implemented predictive analysis for irrigation and fertilization strategies, allowing data driven optimization of crop yield and resource usage.

ICPC'24 (Intercollegiate Programming Contest)

November 2024

- Solved 8+ algorithmic problems within limited time during a competitive programming contest.
- Applied data structures and algorithms in a team setting to tackle complex challenges, achieving the **highest ranking** among all teams from our university.