

# Param Singh

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## SKILLS

**Programming Languages:** Java, Python, C, C#, JavaScript/TypeScript, HTML, CSS, R, MATLAB, Assembly  
**Frameworks and Databases:** MySQL, React, MariaDB, Selenium, .NET, JUnit, Jest, Pitest, Mockito  
**Tools:** AutoCAD, Power Apps, Git, NodeJS, VS/Code, Jira, Bash, Excel, LaTeX, Powershell, Google Cloud, PowerBI

## EDUCATION

**University of Victoria** Sep 2022 - Dec 2026  
*Bachelor of Software Engineering, **Software Engineering** specializing in **Machine Learning*** Victoria, BC  
• Relevant Courses: DSA I & II, Operating Systems, Database Systems, Computer Networks

## WORK EXPERIENCE

**Distribution Design Engineer** | *AutoCAD, Power Apps, C#, .NET, TypeScript* Sep 2024 – Aug 2025  
*ATCO Electric* Edmonton, AB

- Drafting power application proposals and developing **AutoCAD** designs for projects involving transformer capacity upgrades, as well as transitioning power lines from single-phase to three-phase configurations for both underground and overhead applications.
- Collaborating with cross-functional teams, while maintaining communication with clients to address their requested needs based on **operating load** (kW) and **service entrance** (A) requirements.
- Implemented **regular expression** for a Contracting App to identify organization emails and newer features for stakeholders while maintaining correct error handling practices
- Developed an application using **Power Apps** to track report submissions of field experience and technical report hours, Improved flow efficiency by **40%** (8 hours) and **automated** an efficient refresh system
- Designed and implemented a **.NET** application in **C#** utilizing the **SOAP API** to extract billing usage data and generate a detailed billing summary using **TypeScript**, organized by teams, in **Excel**
- Drafted complex, non-standard designs in **AutoCAD** tailored to regional and customer-specific requirements.

## VOLUNTEER EXPERIENCE

**Undergraduate Research Assistant (NDA)** | *Python, Linux* Jan 2024 – Apr 2024  
*SOLIDS Lab* Victoria, BC

- Researched **quantum-resistant** cryptographic **protocols** and their impact on **RSA** and **ECC** encryption.
- Evaluated **TCP/IP** and **UDP** protocols for underwater communication, finding **UDP** reduces latency by up to **30%** compared to **TCP** in noisy conditions.
- Assisted with threat modeling and intrusion detection using **Machine Learning Models** in **Python**.

**Software Developer** | *Unity, C#, VR* Aug 2023 – Nov 2023  
*Dream EliXR* Victoria, BC

- Showcased skills with a **demo of a small-sized** local network one-on-one First-Person Shooter Game.
- Created and optimized game scenes using **C#** and **Unity**, meeting all milestones ahead of schedule.
- Collaborated with a team of six to plan the development of a horror escape room VR game set for release in 2026.
- Achieved proficiency in **C#** and **Unity** within one month, demonstrating rapid learning and adaptability.

## PROJECTS

**SportMatch** | *MySQL, Python, React, Axios, Sequelize, Jest, Git* May 2024 – Aug 2024

- Designed and implemented the backend using **MySQL**, including creating multiple **ERD diagrams** to ensure efficient and secure database design.
- Developed a **Python** script to generate a CSV file of **5,000** entries, to simulate user activity for testing purposes.
- Developed a full-stack **React & Sequelize** ORM application handling 5,000+ simulated user transactions while achieving 90% **Jest** test coverage, ensuring robust API & database reliability.

**ServerManager Discord Bot** | *Javascript, NodeJS, DiscordJS, Git* July 2023

- Developed a Discord bot using **DiscordJS**, deployed and managed with **NodeJS**.
- Designed and implemented server management features, enabling users to efficiently manage their server roles.
- Integrated the OpenAI API, utilizing the davinci-003 model to provide AI-driven capabilities, such as responding to user queries or generating text.