

# YADAV SINGH

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Burnaby, BC, Canada | Email: [ysa306@sfu.ca] | Phone: [778 239 0847] | GitHub: [github.com/yadav412](https://github.com/yadav412) | LinkedIn: [\[Yadav Singh\]](https://www.linkedin.com/in/yadav-singh/)

## TECHNICAL SKILLS

*Languages:* Python; C++; Java; JavaScript; SQL; Typescript

*Tools:* Git/GitHub, Unity, Docker, Linux, Springboot

*Research Skills:* Experimental design, statistical analysis, lab protocol adherence, literature review, data collection & management, data handling in Excel

## TECHNICAL EXPERIENCE

### Software Engineer

(Sept 2025–Dec 2025)

#### Persepolis Technologies INC

- Developed a powered Co-Pilot chatbot feature for the MVP of the company's flagship report-generation platform, aiding users with more efficient report generation.
- Designed and implemented both frontend and backend systems for AI integration, including configuration of default embeddings and client-accessible AI agents.

### Co-founder / Developer

(Aug 2025–Present)

#### Medpack Technologies

- Co-founded an AI health startup focused on developing intelligent patient assistance tools for mental health monitoring and the development of medical device prototypes.
- Led design and development of a functional web-based prototype, integrating real-time eye tracking, heart rate, and facial expression data to enhance AI-based decision making.

## TECHNICAL PROJECTS

### Project Yomiru — Project Manager / Developer

(Apr- Sept 2025)

- Led full software development life cycle for a deployed project, managing timelines, deliverables, and quality control, ensuring the project was completed in given timeframe.
- Implemented frontend across the website, wrote tests ensuring quality control, and maintained the CI/CD pipeline. Acted as repo manager throughout the project cycle, ensuring continuity.

### SFU esports ticketing Discord bot — Project Lead

(Jul 2025 – present)

#### SFU Esports Association

- Developed a full-featured Discord bot used by 50+ active members for ticketing, event scheduling, and moderation.
- Automated project ticketing processes, as well as event scheduling. Decreasing the time wasted in-between requests.

### Research Project — Effect of social media on Mood

(Apr-Sept 2025)

- Designed and executed an experimental study on emotional valence in social media content using PANAS to assess mood changes.
- Conducted statistical analysis using Python scripting; produced a formal APA-style lab report using data processed through a custom Python script increasing result accuracy.

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## **Tessa — Developer / Research Lead** (Aug 2025)

- Designed an AI-based conversational agent modeled on empathetic communication principles to improve emotional engagement and user comfort.
- Applied psychological concepts of affective response and human–computer interaction to guide design choices and dialogue flow.
- Coordinated a small team in translating theory into an accessible, voice-interactive prototype under time constraints.

## OTHER EXPERIENCE

### ***FAS Student Ambassador*** (Jul 2025–Present)

#### **Simon Fraser University**

- Represented the Faculty of Applied Sciences at recruitment and engagement events, including campus tours and Tech Connect.

### ***VP Internal Relations*** (Jun 2025–Present)

#### **SFU Esports Association**

- Developed a custom Discord bot to automate internal project ticketing and streamline team operations.
- Recruited, screened, and onboarded new executive and volunteer members.

### ***Bartender*** (Jun 2024- Present)

#### **Pacific National Exhibition (PNE)**

- Delivered high-volume customer service and ensured compliance with all alcohol service regulations.

### ***Peer Educator*** (Mar 2024- Nov 2024)

#### **Fraser International College (FIC)**

- Tutored students in (Math 100, Cmpt 115, Psyc 102), helping to improve grades in these classes.

## VOLUNTEERING EXPERIENCE

- Poverty Alleviation Volunteer — South Africa

## CERTIFICATIONS

- SQL Certification
- TCPS 2 Core Certification (Ethical Conduct for Research Involving Humans Course on Research Ethics)

## EDUCATION

Bachelor of Science, Software Systems Major, Extended Psychology Minor

Simon Fraser University, Burnaby, BC

(Expected Graduation: 2028)