

Tarun deep Arora

+1 (604) 712-9420 | North Delta, BC | Tda47@sfu.ca | github.com/GodFather1180

TECHNICAL SKILLS

Languages: Python, R, C, C++, Java, Typescript HTML, CSS
Frameworks: React, Next.js, FastAPI
Tools: Docker, PostgreSQL, SQLAlchemy, Git/GitHub, VS Code, AutoCAD, LTspice, MATLAB
Data Analysis: Excel, Pivot Tables, Data Validation
CAD/Design: SolidWorks, AutoCAD, Technical Drawing
OS: Windows, Linux, macOS

EDUCATION

Data Science | Bachelor of Science Sept 2023 – 2028
Simon Fraser University - Burnaby, BC

PROJECTS

Self-First – Privacy-First Habit Tracking App Dec 2025

Personal | TypeScript, React, Next.js, REST API

- Built a full-stack habit tracking app with local-first architecture for full offline functionality.
- Implemented end-to-end encrypted cloud sync — server never accesses plaintext user data.
- Developed account authentication, device linking, and secure JSON export/import and backup.
- Designed accessible UI with dark mode and large-text preferences.

Daily Dilemma – Web Application & User Service Oct 2025 – Dec 2025

Group | React, Fast API, PostgreSQL, Docker

- Developed a full-stack app where users answer daily ethical dilemmas and view real-time community results.
- Built FastAPI backend to manage game logic, user predictions, and majority outcome computation.
- Designed a User Service API with authentication, player tracking, and analytics.
- Containerized with Docker; integrated PostgreSQL via SQLAlchemy for persistent data storage.

Chess Game Dec 2024

Personal | C++

- Developed a full chess game in C++ with Player vs. Player and Player vs. AI modes.
- Designed an AI opponent using advanced algorithms for strategic, challenging gameplay.

Automated Planter Box Sept 2024 – Dec 2024

Group | Sensors, Arduino, Mechanical Design

- Built an automated system monitoring soil moisture with sensors to activate drip irrigation accordingly.
- Designed a motorized roof mechanism for rain/snow protection with manual override capability.

Weather App Sept 2024

Personal | Java, HTML, CSS, JavaScript

- Built a responsive weather app with real-time API data and a dynamic JavaScript/HTML frontend.
- Implemented local storage caching to reduce redundant API calls and improve load performance for repeat users.

WORK EXPERIENCE

Fortune Law Jun 2022 – Jan 2023

Receptionist

- Managed client records and Excel spreadsheets; handled phone inquiries and appointment scheduling.
- Provided administrative support including file handling and organizing legal documents.

LANGUAGES

English (Fluent) **Hindi** (Fluent) **Punjabi** (Native) **Spanish** (Intermediate)