Anhadpreet Singh

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EDUCATION

University of Alberta - *Edmonton, Canada* Expected Graduation: April 2025 Bachelor of Science in Specialization in Computer Science with minor in Business   Cumulative GPA: 3.2/4.0

SKILLS

Languages: Python, Java, Javascript, TypeScript, SQL, C++, C, GraphQL, MATLAB, HTML, CSS, C# and .NET core
Frameworks/Libraries: AstroPy, SQLite, Spring Boot, R, JUnit, SciPy, Pandas, Scikit-learn, Matplotlib, Office.js
Dev Tools: MongoDB, Firebase, Android Studio, Postman, Git, Figma, Jira, PostgreSQL, Unix
Miscellaneous: REST, Agile, Android OS, Shell programming, Git, Bioinformatics, Statistics, API integration
Soft Skills: Communication, Flexible, Troubleshooting, Creative, Teamwork, Time management

WORK EXPERIENCE

Peer Infotech
Fullstack Software Developer (Remote)   *Amritsar, India* May - Aug 2023
- Redesigned and optimized the **UI and workflow** within a given framework to achieve better usability and performance of the same. Implemented **JSON validator** with custom error messages,used **lazy loading of assets**, reducing the Database reads. Improved developers' workflow for 10+ developers.

Bleeding Hearts Art Space
Software Developer   Edmonton, Canada Sep - Dec 2025
- Led a team of 6 as **Scrum Master** to build a **volunteer management system using Typescript** with a secure **PostgreSQL** database for user information (volunteer profiles, event attendance, activity logs).
- Implemented **RBAC-based authentication, registration, event scheduling**, and reporting, and conducted performance tests to ensure stability under high traffic. (http://[2605:fd00:4:1001:f816:3eff:fe0f:cc31])

PROJECT EXPERIENCE

OneStopShop - Inventory management app - *Github*
- On a team of 6, built an inventory management **Android application** in **Java using Agil**e. Integrated **Firebase data**, integrated **JUnit** for testing. Created home, **image processing**, and library pages with ranking algorithms and swipe-to-delete with leading Figma mockups for a clean consistent User Interface

Workflow Scrape (Saas WebApp) - *Github*
- Built a full-stack web application for **web scraping and automation platform using Typescript** with a **drag-and-drop** editor and secure Clerk authentication complemented by ChatGPT integration.
- Integrated **Prisma, React Query, and Stripe** for scalable data management and billing.

MediaMaster - AI Desktop Music Library Organizer
- Developed a Python/Tkinter desktop app for managing music libraries with audio import, playlist creation, categorization, playback controls, search, and drag-and-drop editing.
- Used SQLite for data storage and Pygame for audio playback.
- Improved playlist creation efficiency by 25% through user testing with 10 participants

Friends Sentiment Analyzer (Full Stack AI Model from scratch) - *Github*
- Developed a full-stack deep-learning platform using **AWS SageMaker, Numpy, PyTorch**, and the **T3 Stack** for sentiment analysis on Friends scene cuts.
- Engineered secure user authentication with **personalized API keys** for seamless third-party integrations.
- Architected and deployed a scalable backend with **Prisma, SQLite, and AWS Cloud**

LEADERSHIP EXPERIENCE

Disaster Watch Wildfire Evacuation Hackathon – AWS & University of Alberta
Team Lead - Developed and trained LLM model - Python   *August 2024*
- Secured 3rd place in a hackathon organized by the **University of Alberta and Amazon Web Services**, focused on developing innovative solutions.
- Collaborated in a team of 5 to design and implement a solution for validating news related to the Jasper wildfire using **Large Language Models (LLM)** and **Retrieval-Augmented Generation (RAG)** techniques.