Sepehr Behroozi Esfahani

📞 : (780) 203-8889   ✉ : sepehrbehroozi@gmail.com   in : sepehrbehroozi   ⬤ : sepehrbehroozi
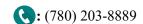
Education and Achievements

University of Alberta - Bachelor of Science, Specialization in Computing Science   09/2021 – 06/2025

- Alexander Rutherford Scholarship – 09/2021
- *Software Process and Client Management Hackathon* Winner – 09/2024

Experience

Business Support Administrator - *NWR*   05/2025 – 08/2025

- Maintain and update internal company databases and records to ensure data accuracy and accessibility
- Track and follow up on action items and deliverables discussed in meetings to ensure a timely completion
- Prepare and format business documents, reports, and presentations for management and operational teams

Research Assistant – *University of Alberta (Greiner Lab)*   09/2024 – Present

- Develop machine learning models for cognitive science research under Professor Greiner's supervision
- Contribute to the ICASSP 2025 SPGC Challenge using semantic, phonemic, and demographic data
- Assist in developing Vision-Language Models for ECG data in collaboration with Alberta Health Services

Software Engineer Intern - *NotJustYou*   09/2024 – 1/2025

- Developed Medical Wallet and health journaling features for a chronic illness management app called Oxygen
- Integrated real-time AI support to simplify complex medical information or inquiries for users
- Designed a calming and accessible interface tailored for medical settings to promote ease and mental well-being

Web Developer - *Student Team for Alberta Rocketry Research (STARR)*   09/2023 – 12/2024

- Develop and maintain the front and back-end of the STARR website using React and NodeJS
- Implement SQL solutions to manage and handle website inquiries efficiently
- Utilize GitHub as the primary version control system to facilitate seamless collaboration

Projects

Relay | Python, Django, PostgreSQL, REST API, ActivityPub, HTML/CSS, JavaScript   04/2025

- Developed a decentralized social networking platform, enabling cross-node communication via a RESTful API
- Implemented an inbox-based distribution system for posts, comments, and likes between federated servers
- Collaborated with 5 teammates using GitHub in an Agile development process

Applify | CSS, HTML, MongoDB, Next.js, TypeScript   09/2024

- Developed a job application tracker with features for application progress and task management
- Implemented Google Drive API for resume editing and saving
- Emphasized visual representation of data throughout the application

EventEase | Android Studios, Firebase, GitHub, Java, JavaScript   04/2024

- Created an event management app allowing organizers to set up events and manage attendees
- Integrated QR codes and geolocation for easy check-ins
- Enabled real-time updates through Firebase for seamless communication

Technical Skills

Languages: C/C++, CSS, HTML/HTML5, Java, JavaScript, Python, SQL, TypeScript
Frameworks: Django, Next.js, Node.js, React Native, React.js, Tailwind
Developer Tools: Android Studio, Cybera, Figma, Firebase, Docker, MongoDB, MySQL, Putty, Vim, VSCode
Libraries: Flask, FastAPI, Requests, Unittest, Pytest, Mock, Mockito, SQLite, React, Matplotlib, NLTK, WordNet