

Romanshu Bedi

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EDUCATION

University of Alberta

BSc in Computer Science, Specialization

Edmonton, AB

Sept. 2021 – May 2025

EXPERIENCE

Software Developer Intern

Ciferone Inc.

May 2023 – August 2023

Toronto, ON

- Redesigned internal tools with **Vue.js** and **Tailwind CSS**, improving user experience with interactive filtering and data visualization.
- Built and deployed scalable **GraphQL APIs** using **Node.js** and **Apollo Server** to streamline data access.
- Automated deployments with **Docker** and **Jenkins**, reducing release times and improving system stability.
- Optimized database queries in **PostgreSQL**, cutting data retrieval time by 35% through indexing and query tuning.
- Implemented role-based access controls (**RBAC**) using **JWT** and **OAuth 2.0** to strengthen data security and user authentication.

President

Space and Robotics Club

May 2020 – May 2021

- Organized first ever virtual event of Space and Robotics “Dive in and Get Lost in Black holes”
- Coordinated quizzes “Space Race and Name the Constellations”, with participation of 500 students
- Organized on- campus science fairs involving the active participation of 300 students.

PROJECTS

Smart Mirror Web Application | [HTML/CSS](#), [React.js](#), [Vue.js](#) 🌐 🌐

- **Built** a responsive web application to display real-time updates such as **time**, **weather**, **news**, and **calendar events**, integrating APIs like **OpenWeatherMap** and **NewsAPI**.
- **Designed** and **implemented** customizable **widgets**, including **to-do lists** and **motivational quotes**, ensuring user-friendly interactions and persistent preferences through **local storage**.
- **Integrated Google Calendar API** for display of upcoming events, utilizing **OAuth 2.0** authentication for secure and user-friendly calendar access.

OneStopShop | [Java](#), [Firebase](#), [Android Studio](#), [Git](#) 🌐

- **Developed** a full-stack **Android app** for **inventory management**, designed to track and oversee diverse experiments, utilizing **Java** and following the **Model-View-Controller** design pattern.
- **Designed** and **implemented** the **Home**, **Image Processing**, and **Library** pages, leveraging **Firebase** for data integration and incorporating features such as **four ranking algorithms** and a **swipe-to-delete** functionality for list items.
- **Utilized Firebase Realtime Database** for efficient storage and retrieval of experiment data, ensuring **scalability** and **reliability**.

Social Distribution | [React](#), [Django](#), [Javascript](#), [HTML/CSS](#), [MUI](#), [Heroku](#) 🌐 🌐

- **Developed** a **decentralized social media platform** using **React**, **Django**, **Heroku**, and **PostgreSQL**, enabling seamless interconnectivity across diverse nodes for a decentralized communication network.
- **Built** a **REST API system** to enable seamless integration between social media platforms, allowing users to **view posts** and **follow** others across multiple networks.
- **Integrated** a robust **inbox-based communication system** to enable seamless exchange of **posts**, **likes**, and **follow requests** across decentralized nodes, enhancing user interaction and engagement.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, TypeScript, SQL (Postgres), JavaScript, HTML/CSS, Kotlin

Frameworks: React, Node.js, Flask, Tailwind CSS, Material-UI, Django

Developer Tools: Git, Docker, AWS, Google Cloud Platform, VS Code, Xcode, Android Studio, PyCharm, Figma

Libraries: pandas, NumPy, Matplotlib, Pygame