

# 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

May 2023 – August 2023

Ciferone Inc.

Toronto, ON

- Developed and maintained web applications, ensuring efficient and reusable code in Java, Python, and JavaScript.
- Collaborated with cross-functional teams, including product managers, and testers, to deliver high-quality projects within deadlines.
- Participated in code reviews, debugging, and performance optimization, contributing to the overall stability and scalability of applications.
- Applied software development principles to design robust solutions for complex technical challenges, demonstrating strong analytical and problem-solving skills.
- Played a key role in project success through effective teamwork and proactive engagement with the development process.

### President

May 2020 – May 2021

Space and Robotics Club

- 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.
- Developed 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