Romanshu Bedi

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EDUCATION

University of Alberta — Edmonton, AB
BSc in Computer Science, Specialization — *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