

Jashanveer Singh Arora

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Education – *University of Alberta*

B.Sc. Major in Computer Science: Software Practices

Leadership & Experience

- **Project Lead** - Android Development Team – *CMPUT 301* course project
 - **President** - University of Alberta Bhangra Dance Club (2024–25)
 - **Founder** - AzTech Club - Highschool
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Projects

Whimsy: A Fully Functional Android Social Media App

- Developed an **Android app enabling mood-based posts, interactive comments, and real-time social connectivity.**
- Designed and implemented a **dynamic content feed, follow system with privacy controls, and editable mood journals.**
- Built an interactive mood map to filter **emotional updates by time, user, or location.**
- Integrated **DALL-E API for in-app AI-generated images** from user prompts, enhancing creative engagement.
- Delivered a **polished mobile experience with responsive UI and scalable Firebase-backed infrastructure.**
- **Skills:** Java, Android Studio, Firebase, Realtime Database, RESTful APIs, DALL-E API, UI/UX Design, Image Generation, Authentication, Social Features, Text Generation.

PulseChain: Hyperlocal Blood Donation Platform

- A real-time blood donor-recipient matching app based on location, urgency, and blood type compatibility.
- Developed cross-platform user interfaces in **React.js and React Native for web and mobile access.**
- Live matching engine powered by **Google Maps SDK, Firebase Cloud Messaging, and Socket.io.**
- Urgency-based scoring model for trauma and emergency prioritization using hospital input.
- Gamified the user experience with **donor leaderboards and predictive donor alerting.**
- **Skills:** React.js, React Native, Node.js, Express, PostgreSQL, Firebase Cloud Messaging, Socket.io, Google Maps SDK, Real-Time Systems, Full-Stack Development

TastyTray: A Full-Stack Meal Planning & Recipe Discovery Platform

- Developed a web app that simplifies meal planning, recipe discovery, and kitchen management through a clean UI.
- Built a fast recipe search engine using Spoonacular **APIs with filters for cuisine, diet, time, and ingredients.**
- Integrated a **weekly meal planner that auto-generates** smart shopping lists based on scheduled meals.
- Designed a **digital pantry system for tracking ingredients and managing inventory.**
- Added **user profiles with favorites, authentication, and session management using Supabase.**
- Delivered a **fully responsive, mobile-first experience with real-time data syncing across devices.**
- **Skills:** React, TypeScript, Vite, Tailwind CSS, Supabase, PostgreSQL, REST APIs, Authentication, Responsive Design, UX.

SkyByte: Cloud Storage

- Engineered a full-stack cloud storage platform using **React, Next.js, TailwindCSS, TypeScript, and Appwrite.**
 - Designed a seamless file management system with CRUD operations - upload, download, rename, and preview files.
 - Integrated OTP-based **two-factor authentication (2FA)** for enhanced security and user verification.
 - Developed secure file-sharing mechanisms with role-based access control.
 - **Skills:** React, Next.js, TypeScript, Appwrite, TailwindCSS, Authentication, Security
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Skills

- **Programming Languages:** Python, Java, TypeScript, JavaScript, C, SQL, RISC-V
- **Frameworks & Libraries:** Flask, React, Next.js, TailwindCSS, Flask-Login
- **Mobile & App Development:** Java (Android Studio), Firebase, Real-Time Database, Firebase Cloud Messaging
- **Databases & Backend:** Supabase (PostgreSQL & Storage), MongoDB, Appwrite, SQL, Socket.io
- **Security & Authentication:** 2FA, OTP-based authentication, Flask-Login
- **Development Tools:** Git, GitHub, Vite, WebSockets, CI/CD Pipelines
- **APIs & Services:** TheMealDB API, AI-powered processing, OpenAI (DALL-E, GPT), Gemini, Google Maps SDK