

# JASHANVEER SINGH ARORA

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## Education

### University of Alberta

*Bachelor of Science in Computer Science (Software Practices)*

**Expected Early 2027**

*Edmonton, AB*

## Experience

### SU Tutor – University of Alberta

*Tutor*

**Apr. 2024 – Present**

*Edmonton, AB*

- Provide academic support in Computer Science courses, simplifying complex topics for peers.
- Adapt teaching methods to individual learning styles, improving student performance.

## Projects

### Whimsy | *Java, Android Studio, Firebase, DALL-E API*

**2024**

- Developed an Android social media app enabling mood-based posts, interactive comments, and real-time feeds.
- Designed a dynamic content system with privacy-aware following and editable mood journals.
- Built an interactive mood map to filter emotional updates by time, user, or location.
- Integrated DALL-E API for AI-generated images, enhancing user engagement.

### PulseChain | *React.js, React Native, Node.js, PostgreSQL, Firebase*

**2025**

- Built a hyperlocal blood donor-recipient matching platform based on urgency, blood type, and proximity.
- Implemented real-time matching using Google Maps SDK, Firebase Cloud Messaging, and Socket.io.
- Designed urgency-based scoring for trauma cases and gamified experience with donor leaderboards.
- Developed cross-platform UIs for both web and mobile with responsive and accessible design.

### TastyTray | *React, TypeScript, Supabase, TailwindCSS*

**2024**

- Created a meal planning and recipe discovery app with digital pantry and shopping list automation.
- Integrated Spoonacular APIs for recipe filtering by cuisine, diet, time, and ingredients.
- Added authentication and session management via Supabase for personalized experiences.
- Delivered a fully responsive, mobile-first design with real-time data syncing across devices.

### SkyByte | *React, Next.js, Appwrite, TailwindCSS*

**2023**

- Engineered a full-stack cloud storage system supporting file upload, download, rename, and preview.
- Integrated OTP-based two-factor authentication for enhanced user security.
- Developed role-based access control for secure file sharing and collaboration.
- Designed scalable architecture with clean UI and smooth file management workflow.

## Technical Skills

**Languages:** Python, Java, TypeScript, JavaScript, C, SQL, RISC-V

**Frameworks & Libraries:** Flask, React, Next.js, TailwindCSS, Flask-Login

**Mobile/App Dev:** Android (Java), Firebase, Realtime DB, Firebase Cloud Messaging

**Databases/Backend:** PostgreSQL, Supabase, MongoDB, Appwrite, Socket.io

**Security:** 2FA, OTP-based Authentication, Flask-Login

**Tools:** Git, GitHub, Vite, WebSockets, CI/CD Pipelines

**APIs:** TheMealDB, Spoonacular, OpenAI (DALL-E, GPT), Gemini, Google Maps SDK

## Leadership / Extracurricular

### President – UofA Bhangra Dance Club

*Led executive team, organized cultural events, and grew membership*

**2024 – 2025**

*Edmonton, AB*

### Project Lead – CMPUT 301 Android Development Team

*Oversaw project lifecycle and coordinated feature delivery*

**2025**

*Edmonton, AB*

### Founder – AzTech Club

*Founded high school tech club, mentoring peers in programming and projects*

**2021 – 2023**

*India*