Ayush Bahuguna

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Education

GB Pant University of Agriculture and Technology, Pantnagar, Uttarakhand *2021 – 2025*
B.Tech in Electronics and Communication Engineering
- CGPA: 7.5

Skills Summary

Languages: JavaScript (ES6+), TypeScript, SQL, C, HTML/CSS
App Development: React Native, Expo, NativeWind, Reanimated, Redux Toolkit
Web & Backend: React.js, Next.js, Node.js, Express, MongoDB, AWS basic, Docker, Firebase
Tools & Design: Git/GitHub, Postman, Figma, Android Studio, VS Code

Experience

Nexty Electronics – *SDE Intern (IoT Mobile)* *Aug 2024 – Oct 2024*
- Developed a **Bluetooth Low Energy (BLE)** interface to visualize sensor data from embedded hardware on mobile devices.
- Optimized data packet transmission for real-time monitoring, reducing latency by 40% using efficient GATT service structures.
- Collaborated with firmware engineers to debug hardware-software communication protocols.

Projects

OverShare - Productivity & Personalization App [Play Store Link ↗]
Tech stack: React Native, Expo, NativeWind, Reanimated, SQLite (Offline)
- **Published on Google Play Store** with 5-star ratings; a production-grade app for creating wallpaper-based notes.
- Engineered a **custom image editor** allowing users to overlay rich-text notes on gallery images with drag-and-drop gestures.
- Implemented **biometric authentication** (Privacy Lock) and a robust offline-first architecture for seamless UX.

Feed4Me - Agri-Tech Ecosystem (Hackathon MVP) [Portfolio Link ↗]
Tech stack: React Native, TypeScript, AWS, Docker, MongoDB, Node.js
- Selected as Top 15 Nationwide in **Tech For Society Hackathon** for building a scalable food supply chain platform.
- Designed a microservices-ready architecture using **Docker** for containerization and **AWS** for cloud deployment.
- Developed a cross-platform mobile client enabling real-time negotiation between farmers and NGOs to reduce food waste.

Splitzy - Full Stack Expense Manager [GitHub Link ↗]
Tech stack: React Native, Node.js, Express, MongoDB, WatermelonDB (Offline Sync)
- Built a **synchronization engine** using WatermelonDB that handles complex background data syncing and local persistence..
- Built a robust REST API handling complex split logic (percentages, shares) and integrated **Firebase Cloud Messaging**.

[More projects ↗]

Achievements

Top 15 National Finalist - Tech For Society Hackathon *Siemens & NASSCOM* *May 2025*
- Selected for the MVP development phase for project **Feed4Me** (Agri-Tech), receiving mentorship from Siemens engineers for system design and scalability.

Siemens Scholarship Program Scholar *2021*
- Awarded to 200 students nationally for academic excellence and leadership potential.