VINAY KUMAR VEMULA

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Summary

Second-year Computer Science undergraduate (CGPA 9.6) with three shipped applications spanning cafe operations, emergency blood matching and mobile gaming. Designs the data model, auth boundaries and user flow, then delivers end to end using AI-assisted development.

Education

Anurag University, Hyderabad **2025 – 2029**
B.Tech in Computer Science & Engineering · CGPA: 9.6/10
Intermediate (MPC): 98.7% | SSC: 9.5 CGPA

Technical Skills

Frontend	React, Next.js, React Native, Expo, Tailwind CSS
Languages	TypeScript, JavaScript, C
Backend & Data	Node.js, Express, Firebase Auth, Firestore
Workflow	AI-assisted development, system design, Git, GitHub, Vercel

Projects

Aroma Cafe — ordering and operations platform for small cafes **2026**
Live · Code

- **Problem** — a small cafe takes orders at the counter, over the phone and from walk-ins, then hand-writes them for the kitchen, so orders get missed and customers keep asking where their food is.
- **Flow** — customer orders and pays online → the order appears on a live kitchen board → the kitchen marks it ready → a rider is assigned with turn-by-turn navigation → the customer sees each status change as it happens.
- **Routing** — in-app directions with voice prompts so riders never need a second maps app, kept on a custom shortest-path router to avoid a paid maps subscription.

BloodLine — blood donation matching for emergencies **2026**
Live · Code

- **Problem** — urgent blood requests get scattered across WhatsApp groups and phone calls, and matching by blood group and city takes hours.
- **Flow** — a requester raises an SOS for a blood group and city → nearby matching donors are notified → a donor accepts → the donation is recorded → a hospital or admin verifies it, closing the request.
- **Integrity** — role-based access for donors, receivers, hospitals and admins, with request state locked so one unit can never be claimed twice.

Guessify — Android number-guessing game **2026**
Code

- **Problem** — most quick mobile games need an account and a server before two friends can play a single round together.
- **Flow** — pick solo or head-to-head → choose a difficulty → guess with directional hints → earn points and climb weekly, monthly and all-time leaderboards.
- **Shipped** — playable as a guest, works offline and syncs later, with 19 engine tests and 28 security-rules tests passing.

Certifications & Achievements

NPTEL Introduction to Programming in C — Elite, 85% (IIT Kanpur, 2026)
Finalist (Top 5), TechHack4 Cloud Domain — BloodLine