

Anshul Dhamija

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Education

Bennett University

2023 – 2027

B.Tech in Computer Science and Engineering

Experience

Mavalore Infotech

Jun 2025 – Aug 2025

Web Dev Intern

- Built and integrated REST API endpoints for **TriceNARI**, a community platform, supporting user authentication, event listings, and dynamic content delivery.
- Debugged and validated API workflows across authentication and content delivery modules, reducing frontend-backend integration issues during development.

Projects

PlaceMint (Placement Management Platform)

MERN, Microservices, Docker, RabbitMQ, Redis, Nginx, Gemini API

- Built an AI mock-interview engine using Gemini API with dynamic question generation, adaptive follow-ups, and automated scoring and feedback tailored to student profile and target role.
- Architected 7 Node.js microservices with an Nginx API gateway handling routing, CORS, and JWT-based role access across student, TPO, and admin roles.
- Implemented event-driven architecture using RabbitMQ to enable asynchronous email notifications without blocking request flow.
- Used Redis for OTP caching and implemented SETNX-based per-user locks to prevent duplicate OTP verification requests.

AyyMAZON (E-Commerce Platform)

Next.js 14, TypeScript, Node.js, Express.js, Prisma, Tailwind CSS

- Built a full-stack e-commerce platform with product catalog, cart, wishlist, and checkout; used React Server Components for data-fetching routes to eliminate client-side loading waterfalls.
- Engineered a debounced search hook (300ms) with live suggestions and parallel data fetching via Promise.all, reducing API calls by 80% during fast typing and cutting total wait time to the slowest single request.
- Automated order confirmation emails via Nodemailer wrapped in Prisma transactions, ensuring atomic cart clearance and preventing partial checkout state on failure.

FindMyProf (Campus Faculty Finder)

React Native, Expo, Firebase, Expo Router

- Designed a dual-role auth system where pre-created faculty accounts are claimed on signup via email matching, merging anonymous Firestore data into user profiles.
- Built a public directory with an animated bottom-sheet auth gate that intercepts protected actions (messaging, booking) inline.
- Implemented real-time Firestore listeners across directory, chat, and booking screens with proper cleanup; optimized list rendering using FlatList, React.memo, and useCallback.

Technical Skills

Languages: JavaScript, TypeScript, Python, C++

Frontend: React.js, Next.js, HTML, CSS, Tailwind CSS

Backend & APIs: Node.js, Express.js, REST APIs, JWT Authentication

Databases & Caching: MongoDB, MySQL, PostgreSQL, Redis, Prisma ORM

Systems & Infrastructure: Docker, RabbitMQ, Microservices Architecture, Nginx, AWS (EC2, CloudWatch)

CS Fundamentals: Data Structures & Algorithms, OOP, DBMS, Operating Systems, Computer Networks

Certifications

- **AWS Certified Solutions Architect – Associate (SAA-C03)** Mar 2026
- **NVIDIA: Getting Started with Accelerated Computing in Modern CUDA C++** Nov 2024