Ishan Saxena

Software Engineer | Full-Stack & Android Development

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Technical Skills

Programming Languages	C++, Java, JavaScript (ES6+), Kotlin, Python, HTML, CSS
Frameworks and Libraries	Node.js, React.js, Next.js, Jetpack Compose, Android SDK
Databases	MongoDB, Firebase, MySQL
Developer Tools	AWS, Git, Docker, Postman, Figma, VS Code, Android Studio
Core Competencies	Distributed Systems, REST Architecture, Relational Schema Design, CI/CD Pipelines, Test Automation,
Other Skills	Design Thinking, Prompt Engineering, LaTeX

Education

B.Tech: Computer Science and Engineering Sept 2023 – Present

Vellore Institute of Technology, Bhopal (**CGPA: 8.87**)

Relevant Coursework: Data Structures and Algorithms, Operating Systems, Database Management Systems, Computer Networks, Object-Oriented Programming, System Design, Web Technologies, Software Engineering

St. Teresa School, Indirapuram Mar 2020 – May 2023

Class XII (Science, CBSE) — 89.2%
Class X (CBSE) — 97.6%

Experience

CirclePe May 2025 – June 2025

Web Development Intern

- Engineered the blog admin panel, integrated **TipTap**, and delivered an **SEO-optimized Area Converter tool**, improving usability and production readiness.
- Automated ingestion of **1,000+ web data points** and generated city sitemaps; architected scalable **scraping pipelines** and **data workflows**.
- Prototyped **UX/UI flows** in **Figma** and **React**, streamlining navigation and enhancing cross-device experience.
- Streamlining application performance and reliability using **ReactJS**, **NextJS**, and **Python**.

Projects

Smart Diet Planner – NutriBharat | Kotlin, Python, Flask, KNN, Android GitHub

- Designed an Android diet recommendation app powered by a **KNN model**, achieving **90% validation accuracy**.
- Integrated a **Python Flask backend** with a **Kotlin frontend** for real-time predictions, handling **100–200 simulated queries per session**.

SentinelWatch — Hybrid Network Intrusion Detection System (NIDS) GitHub

- **Architected** a high-efficiency packet inspection module in C++ with streamlined memory paths and optimized I/O, sustaining **95% packet retention** during intensive SYN-flood simulations.
- **Orchestrated** a resilient IPC transport layer using custom buffered streams and real-time JSON serialization, delivering **100% alert throughput** across peak-load network conditions.
- **Formulated** a rule-centric detection framework backed by REST endpoints and WAL-tuned SQLite, deploying **five specialized security policies** covering SYN anomalies, ICMP spikes, privileged-port scans, RDP/SSH probes, and host-resolution heuristics.

Echo Chamber – AI Persona Chat App | Node.js, React, Gemini API, JavaScript GitHub

- Interactive **AI chat platform** leveraging the **Gemini API** for real-time persona-based conversations with smooth context retention and support for **30+ concurrent requests**.
- Enhanced **API security** and **frontend responsiveness** through secure key management and adaptive light/dark UI, improving user engagement and session stability.

Extracurricular

Core Member, HR Team – Cisco Community, VIT Bhopal Oct 2024 – Present

- Drove member engagement by leading technical events (**100+ attendees**) and optimizing on-boarding process.