

Ishan Saxena

Software Engineer | Full-Stack & Android Development

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Technical Skills

Programming Languages	Kotlin, Python, C++, Java, JavaScript (ES6+), 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	Problem Solving, API Design, Agile Development, Unit Testing, Database Design
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 – Real-Time NIDS Platform | C++, Node.js, Express, SQLite [GitHub](#)

- Built a real-time **Network Intrusion Detection System (NIDS)** combining a **C++ packet-capture engine** and **Node.js backend**; achieved **<20 ms detection latency** while analyzing **1 Gbit/s+ traffic**.
- Implemented a rule-based **threat detection pipeline** achieving **95% accuracy** and reducing **false positives by 70%** through intelligent HTTP/HTTPS traffic filtering and detection of ICMP, SSH, and RDP intrusions.
- Automated deployment with **RESTful APIs**, **JSON alert streaming**, and batch scripts to accelerate setup and ensure consistent delivery.

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.

Member, Boys' Hostel Committee – VIT Bhopal Oct 2024 – Apr 2025

- Orchestrated cross-team logistics for "Summer Fest", a **1,000+ participant** event.