

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 Vellore Institute of Technology, Bhopal (CGPA: 8.87)	Sept 2023 – Present
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 Class XII (Science, CBSE) — 89.2% Class X (CBSE) — 97.6%	Mar 2020 – May 2023

Experience

CirclePe Web Development Intern	May 2025 – June 2025
• 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	
• 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 .	GitHub
• 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.	