

# SACHIN S THANKACHAN

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## SUMMARY

Full-stack engineer specializing in backend systems and AI-powered applications, with experience building scalable APIs, real-time systems, and GenAI platforms.

## EXPERIENCE

### Full-Stack Developer Intern | BuildBit

Mar 2025 – Present

*Node.js, Express.js, MongoDB, Firebase Auth, FCM, AWS S3*

- Engineered production backend for Niam Bladi (food rescue platform) with discriminator-based User/Vendor/Admin model, Firebase Auth middleware, and role-gated REST APIs across 10+ resource domains
- Built transactional order flow using MongoDB sessions with atomic stock deduction, QR-based pickup verification, and 9-state status machine with FCM topic notifications per order event
- Developed admin revenue dashboard with MongoDB aggregation pipelines for real-time KPIs (GMV, commission, fulfillment rate, meals saved), time-series graphs, and paginated order exports in Excel and PDF
- Implemented cart system with stock-aware add/remove, vendor snapshot on checkout, and platform fee computation. Reduced oversell bugs to zero via session-wrapped bulkWrite ops

### Full Stack Developer Intern | BytesEdge

Jan 2025 – Mar 2025

*Node.js, Express, MongoDB, REST APIs*

- Shipped production backend for web app across 6 modules including user management, activity tracking, notices, profiles, analytics, and admin workflows
- Designed service-based architecture separating API layer, business logic, and data access via shared utilities and middleware abstractions
- Built REST APIs for auth, CRUD, role-based access, and dashboard metrics. Handled complex multi-entity data flows and form-based entry
- Implemented Mongoose schemas, MongoDB aggregation pipelines, and Express middleware for validation and error handling

## PROJECTS

### DevInsight ([Website](#) | [GitHub](#))

Feb 2025

*Next.js, React, ChromaDB, GitHub API, Groq LLM*

- AI code analysis platform using ChromaDB vector search to navigate large codebases with 85% retrieval accuracy, cutting comprehension time by 60%
- Auto-generates repo documentation via Groq LLM with a natural language query interface over indexed codebase embeddings

### SamajAI ([Website](#) | [GitHub](#))

May 2025

*Next.js, Gemini AI, Google Cloud TTS, Prisma, PostgreSQL*

- EdTech platform localizing English educational videos into 8 Indian languages with AI-driven cultural adaptation (\$ → ₹, Pizza → Dosa) and natural voice narration via Google Cloud TTS
- Built voice teacher, text chatbot, PDF translator, and quiz generation, all powered by Gemini AI on a Prisma + PostgreSQL backend

## TECHNICAL SKILLS

<b>DSA:</b>	LeetCode Rating 1600+, 300+ Problems
<b>Languages:</b>	JavaScript, TypeScript, Python, Java, C
<b>Frontend:</b>	React, Next.js, Tailwind, Bootstrap, HTML/CSS
<b>Backend:</b>	Node.js, Express.js, REST APIs
<b>Databases:</b>	MongoDB, PostgreSQL, Supabase, Prisma
<b>Agentic AI:</b>	OpenAI SDK, RAG, LangChain, LangGraph
<b>DevOps:</b>	Docker, Kubernetes, AWS, Git, GitHub, Prometheus, Grafana
<b>Tools:</b>	VS Code, Postman, Vercel
<b>OS:</b>	Linux, Windows

## ACHIEVEMENTS

- Winner** - Encode 2025 Hackathon, MREC
- Winner** - Vivitsu 2025 Hackathon, GRIET
- Winner** - Udhgam 2025 Hackathon, Woxsen
- Winner** - GenAI Hackathon, GRIET
- Finalist** - Robotics Competition, IIT BHU

## LEADERSHIP

### AAC | Web Development Core Team & Mentor

Oct 2023 - Present

- Developed and maintained the official AAC website, improving digital presence
- Mentored 25+ students in MERN stack and Next.js development
- Organized technical workshops, hackathons, and ideathons for 500+ participants
- Led new technical initiatives including AI/ML integration workshops

## EDUCATION

### Gokaraju Rangaraju Institute of Engineering and Technology

B.Tech Computer Science | 2023-2027

GPA: 8.54/10

### Sri Chaitanya Junior College

Class XII (MPC) | 2021-2023

Percentage: 96.3%

### Bharatiya Vidya Bhavan's Public School

High School | 2008-2020

Percentage: 88%