Manomay Kagalkar

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Domains & Skills:
- **Full-stack** development - building webapps (**React SPA**), API design and development (**RESTful**, **Websocket**)
- **AWS Cloud**   - S3, EC2, VPC, IAM
- **Cybersecurity**   - vulnerability assessment, defence-in-depth, network hardening in linux

Tools and Technologies:
Javascript, **Next.js**, React.js, **Node.js**, **Express.js**, Nginx, **Socket.io**, **TailwindCSS**, **MongoDB**, **OpenAI API**, Python, Flask, PostgreSQL

Certifications:
- **Certified in Cybersecurity by ISC2** (ISC2 CC) , November 2023
- **AWS Certified Cloud Practitioner** (AWS CLF-C02), December 2023

EDUCATION

Board	Graduation	Institution	CGPA/Percentage
B.Tech CSE (specialisation in cybersecurity)	May 2025 (ongoing)	VIT Bhopal University	8.1
Class XII equivalent	May 2021	RV PU College, Jayanagar, Bangalore - 560011	93%
Class X	May 2019	Carmel School, Padmanabhanagar, Bangalore - 560070	93%

ACADEMIC PROJECTS

innovative solution for event registrations	**Ticketing System for Events (January - August 2023)** - Description: generates QR code tickets from google form registration data for entry to events - Technologies: Frontend - Next.js, **API** - **Node.js, Express.js**, Python - pillow library for image manipulation, Google AppScripts, MongoDB, deployed on Vercel and replit - Team: 2 members - Role: planning the product, developing frontend and API - Link: https://devscene.vercel.app - Results: **4500+ tickets generated** for **8 major events** at my university, earned revenue of INR **₹15,000** through these orders, made checkins **40 minutes faster** in these events
AI-assisted recruitment campaign	**The Fusion Club Recruitment System, (December 2023 - January 2024)** - Description: a recruitment portal where candidates can get suggestions and evaluators can make decisions faster using ratings and summaries from an OpenAI Assistant. - Technologies: OpenAI API, MongoDB, **Next.js**, **Node.js**, socket.io and **AWS EC2** - Role: end-to-end from feature design to development and deployment - Result: the system was used to **select core team members for the club from a pool of over 150** candidates - Link: https://thefusionclub.in/

RESPONSIBILITIES

Student Coordinator, VIT Bhopal Experiential Learning Programme	• negotiated with officials at the Bangalore Metropolitan Transport Organisation (BMTC) and Bangalore Metro Rail Corp (BMRCL) to secure slots for industrial training, site visits and bus tours **for over 600 students**
Technical Team Lead, The Fusion Club, VIT Bhopal	• **managed 7 events with total footfall of 1500**, developed various games, timing and ranking solutions for the events
Web Developer at TEDxVITBhopal Chapter	• developed official website with the team, managing TEDx guidelines and Chapter head's requirements

ADDITIONAL INFORMATION

Achievements	• participated in hackthebox Cyber Apocalypse CTF, global rank 75 out of 6482 teams
Currently working on	• building my own fully encrypted cloud storage, self-hosted on my home VPS • link - https://pi.manomay.co
Hobbies	• long distance running - completed the Bangalore Mountain Festival Toughest Trail Run 2023 edition, currently training for a 21K
Languages	English, Kannada, Hindi