Manomay Kagalkar

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Education

VIT Bhopal University   Madhya Pradesh, India
Pursuing Bachelor of Technology in Computer Science and Engineering, 8.16 CGPA   July 2021 onwards
(specialization in Cybersecurity and Digital Forensics)

RV PU College   Bengaluru, India
Karnataka Pre-University Board, Class XII, 93.33%   July 2021

Carmel School   Bengaluru, India
ICSE Board, Class X, 93.16%   May 2019

Skills

Tools and Technologies: JavaScript, Java, Node.js, React.js, Amazon Web Services (AWS), MongoDB, PostgreSQL
Certifications:
- AWS Certified Cloud Practitioner (CLF-C02), December 2023
- ISC2 Certified in Cybersecurity (CC), November 2023

Projects

Vault: Secure File Sharing System, https://chuckit.xyz   April 2024 – July 2024
- Developed Next.js app to encrypt and store files in Google Cloud Storage then access with short links
- Built Python command-line tool for hybrid encryption (AES + RSA), key management and file sharing using AWS S3
- Studied and implemented security practices for privacy focused authentication, rate limits and file integrity

TokenCity: Transaction System For Gaming Arcade   February 2024
- Created Node.js app with QR card scanner for 400+ players to load money, spend on games and redeem rewards
- Processed 968 transactions worth INR 39639.00 using PostgreSQL database protected against SQL injection attacks

AI-Assisted Recruitment System, https://thefusionclub.in   December 2023 – January 2024
- Gamified the recruitment portal with GPT-4 sorting hat for candidates and summaries with ratings for evaluators, enabling the club heads to **shortlist 45 candidates from a pool of 273 applications** in just 8 days
- Tested real-time WebSocket API to handle 1000 concurrent connections and deployed on AWS EC2 instance

DevScene Passes: Ticketing Solution, https://devscene.vercel.app   January 2023 – August 2023
Description: Google Form integration to generate and email a verifiable QR ticket on submission
- Built the admin dashboard, ticket scanning functionality and mailing service using Next.js, MongoDB and Flask.py
- Managed deployments on Vercel, Replit and Atlas to minimize cost, spending less than INR 80.00 per event served
- Served 8 major university events, **mailed over 4500 tickets and generated revenue of INR 15000.00**

Responsibilities

Technical Team Head, The Fusion Club   August 2022 – May 2024
- Analyzed previous registrations data to identify typing as pain-point for users, proposed and led development of single-click, formless registration that eliminated Google Form registrations at 2 events for over 600 users
- Managed the technical requirements for registration, payment verification, communication, gaming and timing solutions at the club for 9 events with a total footfall of 2500+ students

Student Coordinator, VIT Bhopal Experiential Learning Programme   August 2023 – October 2023
- Negotiated with officials at the Bangalore Metropolitan Transport Corp. (BMTC) and Bangalore Metro Rail Corp. (BMRCL) to finalize the schedule for industrial training, site visits and bus tours of 600+ students
- Collaborated with team of 8 coordinators to facilitate sessions according to approved schedule at 5 sites

Additional Info

Co-curricular: Received global rank 75 out of 6482 teams in HackTheBox Cyber Apocalypse CTF
Hobbies:
- Running – completed the Bengaluru Mountain Festival Trail Run 2023 edition, currently training for a 21K
- Self-hosting - saved INR 3000.00 in cloud costs with home server for hobby projects, https://pi.manomay.co
Languages: English, Kannada, Hindi