Manomay Kagalkar

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SKILLS

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

EDUCATION

VIT Bhopal University — Bhopal, IN
B.Tech CSE with specialization in Cybersecurity and Digital Forensics — expected Jun 2025
CGPA: 8.16/10.00

RV PU College — Bengaluru, IN
Karnataka PU Board, Class XII, 93.33% — May 2021

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

PROJECTS

VAULT: SECURE FILE SHARING SYSTEM | Full Stack + Cloud | https://chuckit.xyz — Apr 2024 – Present
file sharing website and CLI tool to generate shareable URLs from uploaded files with end-to-end encryption

- developed CLI tool for AES-256 + RSA hybrid encryption and key management utility for AES, RSA and ECC keys
- implemented AWS S3 and GCS file uploads with generation of shareable signed URLs using respective SDK
- researched light-weight encryption and hashing algorithms like Blowfish, PRESENT and BLAKE3

AI-ASSISTED RECRUITMENT SYSTEM | MERN Stack | https://thefusionclub.in — Dec 2023 – Jan 2024
Application portal with gamified recruitment form that has suggestions, summaries and ratings from a GPT-4 Assistant to speed up decision-making for candidates and evaluators

- built a gamified form using GPT-4 as a sorting hat to suggest appropriate team/role based on responses
- designed and developed an evaluator dashboard for applications with GPT-4 summaries, ratings and filters
- tested real-time Websockets API to handle 1000 concurrent connections and deployed on AWS EC2
- **enabled club heads to shortlist 45 candidates from a pool of 273 processed applications in 8 days**

PASSES: TICKETING SYSTEM | MERN Stack | https://devscene.vercel.app — Jan 2023 – Aug 2023
Service that integrates with Google Forms to instantly generate and mail a verifiable QR ticket for event registrations
- built the admin dashboard, ticket scanning page 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
- automation of ticket verification and attendance lead to 40 minutes faster entry to the event venue
- **served 8 major university events, mailed 4500+ tickets and generated a revenue of INR 15000.00**

RESPONSIBILITIES

Technical Team Head, The Fusion Club — Aug 2022 – May 2024
- analyzed registration data from previous events, identified typing as pain-point for users, proposed and led development of single-click, formless registration that eliminated Google Forms at 2 events for 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 — Aug 2023 – Oct 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
- facilitated events according to approved schedule at 5 physical sites with a team of 8 student coordinators

ADDITIONAL INFO

Hobbies: running – completed the Bangalore Mountain Festival Trail Run 2023 edition, currently training for a 21K
Languages: English, Kannada, Hindi