Pushkar Singh

+91 63876 31089 | pushkarsingh2022@vitbhopal.ac.in | linkedin.com/in/pushkar-singh23 | github.com/Pushkar1604

EDUCATION

Vellore Institute Of Technology   Sep22 - May26
B.Tech in Computer Science & Engineering, Specialization in Cyber Security and Digital Forensics   CGPA: 8.38/10

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Java, Python, Solidity
Backend: Node.js, Express.js, NestJS, REST APIs
Frontend: React.js, Next.js, HTML5, CSS3, Tailwind CSS
Database: MySQL, Appwrite, MongoDB (basic), AWS RDS
Tools: Git, Postman, Twilio API, Wireshark
Cloud: AWS (RDS, EC2 basics), Vercel
Security: API Security, Input Validation, Hashing (SHA-256)

PROJECTS

Crowd$: A Web3 Blockchain Crowdfunding Platform   Nov24
- Developed backend services for campaign creation, fund withdrawals, and transaction processing.
- Integrated smart contracts with a Next.js frontend using ThirdWeb SDK.
- Ensured API smart contract communication with proper request validation and error handling.

CareConnect: HealthCare application   Aug24
- Built a secure full-stack healthcare system with appointment booking and real-time SMS updates.
- Integrated backend logic with Twilio API for appointment confirmations.
- Designed database models and optimized query handling in Appwrite.
- Implemented secure input validation and API access control to prevent injection-based attacks.

BlockSecure: Blockchain File Verification System   July25
- Built a backend service to hash and verify files using SHA-256 before blockchain anchoring.
- Designed Node.js helpers for hashing, file upload processing, and contract interaction.
- Implemented batch request optimization to reduce processing overhead.

KEY BACKEND/FRONTEND EXPERIENCE

- Designed RESTful APIs using **Node.js + Express.js**.
- Integrated **React/Next.js** UIs with backend services.
- Performed **database schema design**, optimized queries, and configured cloud databases (AWS RDS).
- Implemented secure authentication workflows and validated request payloads.
- Debugged full-stack issues involving UI, API, and DB layers.

ACHIEVEMENTS

- Hack Z'24 - Collaborated in the Hack Z'24 hackathon organized by the CSEA of Anna University Chennai developing a real-time crowdfunding platform termed as CrowdS and also won the first track prize in Blockchain Track   Nov24

CERTIFICATIONS

- Completed Certified Ethical Hacker CEH v12 by EC-Council and Secured 121/125 marks   Dec24
- Completed IBM Blockchain Developer by IBM   May25

CO-CURRICULAR

- Led a peer team to First Prize in the Blockchain Track at Hack Z'24, a national-level hackathon hosted by Anna University, Chennai, standing out among 500+ submissions from 324+ colleges as part of a co-curricular achievement   Nov24
- Participated as team member in Smart India Hackathon 2024 and created an AYUSH Startup Registration Portal aims to streamline the registration process for startups   Aug24 - Dec24

EXTRACURRICULAR

Keyboard Piano: Professionally trained in playing Keyboard Piano with Senior Diploma from Prayag Sangeet Samiti and performed in various events
Football Player: Participated as goalkeeper in inter school and district level football tournaments

ADDITIONAL

Languages: Hindi (Fluent), English (Fluent), Japanese (basic)