



PRATHAMESH RATTHE

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SUMMARY

As a Software Developer Engineer, I enjoy creating secure, scalable solutions with FastAPI, React, and AWS. My work spans full-stack development, cloud computing, and cybersecurity — transforming complex challenges into impactful, real-world software experiences.

EDUCATION

B.Tech in Computer Science & Engineering with specialization in Cyber Security

2021 - 2025

Shri Ramdeobaba College of Engineering and Management, Nagpur(MH)

PROJECTS

ThermalBill

GitHub

- Built a full-stack restaurant billing and management system with menu, billing, and organization modules. Integrated Redis caching, AWS S3 file storage, and FastAPI-React stack for seamless performance.

Skills: FastAPI, React, TypeScript, Tailwind CSS, Redis, MySQL, AWS S3, Docker, REST API Design

SecureMedicose

GitHub

- Developed a secure platform for storing and managing health records using encryption techniques. Ensured user authentication and data privacy through advanced security protocols. (Patent holder for secure health data protection.)

Skills: Python, FastAPI, Data Encryption (AES/RSA), JWT Auth, PostgreSQL, AWS Security, REST API Development

VulneraTrack

GitHub

- Developed a web extension to track and identify security vulnerabilities in real time. Enabled seamless browser integration and provided detailed reports for effective vulnerability management.

Skills: JavaScript, React, Chrome Extension APIs, Cybersecurity Scanning, Real-Time Data Processing, Git, npm

summarIQ

GitHub

- Created an AI-driven system to summarize YouTube videos and verify content authenticity. Integrated fact-checking and fake news detection for reliable insights.

Skills: Python, FastAPI, NLP & ML, YouTube API, Fact Verification, React, Tailwind CSS, AWS Deployment

CERTIFICATIONS

February 12, 2024

Google IT Support Professional Certificate

Coursera

March 8, 2024

Zero Trust Cloud Associate, Zscaler (CPE Credits: 6)

GLOBAL Certificate

April 4, 2024

Google Project Management Professional Certificate

Coursera

PATENTS & PUBLICATIONS

Patent Name: **A Secure Health Data System** Application Number: **202421042657**

Status: **Published**

Research Paper: **Homomorphic Way Of Storing Pharmaceutical Data**

Status: **In-process**

ACHIEVEMENTS

- Secretary & Joint Secretary of Cybersecurity Students' Executive Council, RCOEM
- Class Representative for 4 semesters while pursuing B.Tech
- Organized 1-week Cybersecurity Awareness Event - AARHANT'23 with 1500+ participants