

ABHIGYAN TRIPATHI

Software Development Engineer

+91 93703 52302 abhigyantrips@gmail.com linkedin.com/in/abhigyantrips
github.com/abhigyantrips India abhigyantrips.dev



SUMMARY

Software development engineer specializing in cybersecurity with proven expertise in deploying NLP tools and optimizing database systems. Delivered a natural language processing solution at Reliance Industries that enhanced diagnostic accuracy for over 100,000 X-Ray reports. Improved database query performance by 43% in Indian Army systems and led technical clubs to 300% membership growth. Skilled in Python, Linux, PostgreSQL, and cloud technologies, aiming to innovate and improve software efficiency in dynamic environments.

EDUCATION

B. Tech in Computer Science (Specialising in Cybersecurity)

Manipal Institute of Technology

08/2022 - 05/2026 Bengaluru, Karnataka

GPA
8.97 / 10.0

EXPERIENCE

Software Engineering Intern

Reliance Industries Limited

06/2024 - 06/2024 Mumbai, India

(Python, Jupyter, Anaconda, Linux)

- Deployed a robust natural language processing tool to analyse and extract data from over 100,000 chest X-Ray reports, improving diagnostic efficiency and accuracy for radiologists
- Configured Linux software on 6 PCs to support remote ICU units, increasing the efficiency of patient monitoring and reducing response time in inaccessible hospital locations by 35%
- Designed MRI defacing pipelines, conducting anonymisation of sensitive patient data and ensuring 100% compliance with central data protection guidelines

Software Engineering Intern

Indian Army Establishment (CME Pune)

01/2024 - 06/2024 Pune, India

(Next.js, PostgreSQL, Docker)

- Innovated and managed a student management life cycle portal for educational operations of 600+ students and staff, improving input data accuracy by 30% and TAT by 60%
- Boosted PostgreSQL database query speed by 43% by optimizing complex queries to enhance system performance

VOLUNTEERING

Lead Design Engineer

Peaceful Foundation

06/2022 - Present

Working on online branding of global campaigns against addiction and child exploitation, with other prominent concepts such as voting education and local community support

SKILLS

JavaScript	TypeScript	Java	C	Python
HTML	CSS	SASS	Tailwind	React
Next.js	Dart	Flutter	MySQL	SQLite
PostgreSQL	Git	GitHub	Docker	Vercel
FastAPI	Django	Cybersecurity	Linux	

Azure Active Directory

PROJECTS

Accreditation & Reporting System

09/2024 - 03/2025 Bengaluru, India
github.com/YCN-club/accreditation-website

Application Development Cell, MIT-BLR

- Increased stakeholder data analysis efficiency by 62% by developing responsive user interfaces for data visualization
- Created a centralised data export platform for a 4000+ student campus, reducing administrative workload by 43%

NSS Mobile Application

08/2024 - 03/2025 Bengaluru, India
github.com/YCN-club/nss-app

National Service Scheme Unit, MIT-BLR

- Improved data accessibility by 55% and streamlined workflows by developing an application for volunteer registration and resource management
- Spearheaded authentication with Microsoft's Azure AD, cutting onboarding time of new volunteers by 55% and enhancing user experience

KEY ACHIEVEMENTS

CodeX (That Coding Club), MIT Bengaluru - President

Conducted events and a rebranding campaign that grew a technical club's membership by 300% and fostered personal and professional growth for over 700 members

Null-OWASP Chapter, MIT Bengaluru - Chapter Lead

Mentored and assessed a diverse group of 200+ students, ensuring the successful execution of projects through personalised support and training