

ABHINAV BABU

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Profile

Intern @ Tata Advanced Systems Limited | Full-Stack Developer | Software Engineer | DevOps Specialist

Experienced freelance **Full-Stack Developer** with 3 years of experience . Currently completing an internship at **Tata Advanced Systems Limited (DRDO)**, where I am working on developing scalable applications using the **MERN Stack**. Skilled in **software development, optimization, DevOps, and cloud platforms** like **AWS, MySQL, and XAMPP**. Proficient in **end-to-end web application development and application development**, enhancing software performance, and implementing automated **CI/CD pipelines** for continuous integration and delivery.

Education

Bachelor of Technology in Computer Science and Engineering (Awaiting Results)

Nehru College of Engineering and Research Centre, Kerala | Sept 2021 – Apr 2025| CGPA:7

Academic Achievements:

- Python Language Class Topper (12th) - Amrita Vidyalayam.
- Hindi Class Topper (10th) - Amrita Vidyalayam.
- Student Lead, IEDC NCERC & Tourism Club of NCERC Kerala.

Projects

REDHAWK (Cybersecurity Pentesting Tool with Chatbot Integration) | Group Project | 2025

- Developed a tool to detect vulnerabilities by analyzing logs and scanning website URLs.
- Integrated an **AI-powered chatbot** and used **XGBoost** for machine learning-based threat prediction.
- Technologies: **Next.js, JavaScript, MongoDB, Python, XGBoost**.

MedVault (Medical Record Storage System) | Group Project | 2025

- Developed a blockchain-based medical record storage system ensuring data provenance and security.
- Implemented unique ID system linking patients to their records for secure, tamper-proof access.
- Enhanced transparency and traceability of medical data with decentralized ledger technology.
- Technologies: **Blockchain, JavaScript, React, Node.js, MongoDB**.
- Published in the *International Journal of Scientific Research in Engineering and Management (IJSREM)*

CIPHER SHARE (Advanced Encryption and Decryption using Keys) | Group Project | 2024

- Developed a secure application for encrypting and decrypting text and images using unique keys.
- Technologies: **JavaScript, Next.js, CSS, MongoDB, XAMPP, AWS**.
- Published in the *International Journal of Scientific Research in Engineering and Management (IJSREM)*

Project Name	Year	Description	Technologies Used
Speech Translator	2024	Language translation app for emigrants.	Next.js, CSS, JavaScript, Python,AWS.
EXPENSEZONE (Expense Tracker)	2024	Real-time expense tracker using cloud integration.	Next.js, CSS, JavaScript, PHP, SQL, IIS
NCERC VOTING SYSTEM	2024	Secure college election voting platform.	HTML, CSS, JavaScript, PHP, SQL, IIS
BASE BUILDER	2024	Engineering calculator for civil foundation evaluations.	HTML, CSS, JavaScript, PHP, SQL, XAMPP,AWS,NGROK.
NCERC FEEDBACK SYSTEM	2024	Feedback system for student evaluations with appreciation.	HTML, CSS, JavaScript, PHP, SQL, IIS.
NCERC Faculty Management System	2024	Faculty record management platform.	HTML, CSS, JavaScript, PHP, SQL, IIS.
NCERC SRMS	2024	Platform to publish and manage student results.	HTML, CSS, JavaScript, PHP, SQL, IIS
MESSAGE TRANSPORT SYSTEM	2024	Internal email communication system.	HTML, CSS, JavaScript, PHP, SQL, XAMPP,AWS,NGROK.
Hospital Management System	2024	Online appointment and consultation platform.	HTML, CSS, JavaScript, PHP, SQL, XAMPP,AWS,NGROK.
NCERC ATTENDANCE SYSTEM	2024	Attendance tracking system for students and faculty.	HTML, CSS, JavaScript, PHP, SQL, IIS.
Graphical Password Auth System	2023	Three-factor secure authentication system.	HTML, CSS, JavaScript, PHP, SQL, XAMPP,AWS,NGROK.
Advocate Website	2023	Personal portfolio site for legal professionals.	HTML, CSS, JavaScript, PHP, SQL, XAMPP,AWS,NGROK.
Smart City Traveller	2022	Travel package planner and tourist guide platform.	HTML, CSS, JavaScript, PHP, SQL, XAMPP,AWS,NGROK.
Trevally	2022	Platform for users to share and store travel experiences.	HTML, CSS, JavaScript, PHP, SQL, XAMPP,AWS,NGROK.
NCERC Website	2022	Responsive official college website for NCERC.	HTML, CSS, JavaScript,IIS.

Certifications

- Software Development & Project Certificates – NCERC (2024)**
 Letter of Appreciation for software development
 Certificates for developing NCERC Feedback System, SRMS, Expense Tracker, Voting System, Faculty Information System, Attendance System.
- Workshops & Training (2024)**
 Letter of Appreciation for conducting Full Stack Development workshop.
 Certificate for conducting Full Stack Development workshop.
- Bootcamps & Technical Courses (2023–2024)**
 Figma, Canva, CSS, Git & GitHub, Google Sheets, Java, JavaScript, HTML5.
- WildLearner Certifications (2023)**
 HTML5, JavaScript, Python, React.
- Programs & Leadership (2023)**
 IEDC GENIX Program.
 Campus Ambassador, IEDC Summit March 4, 2023 & October 19, 2024.
- Workshops**
 IEEE Ather Energy Workshop.

LINK TO MY CERTIFICATES: [My certificates - Google Drive](#)

Skills Summary

Coding Languages: C programming, Python programming, Java, JavaScript, HTML, CSS, Php, SQL, MongoDB, Shell Scripting, NextJs, React.

Other Technical Skills: DevOps, Full stack development, Database development, Debugging, Generative AI, Encryption and Decryption Techniques, DevOps & Automation, Mern Stack.

Soft Skills: Communication, Leadership, Strategic Thinking, Decision-Making, Project Management, Change Management, Customer Relationship Management (CRM), Risk Management, Accounting, Finance, Human Resource.

Language: English, Hindi, Malayalam, Tamil.

Activity: Conducts workshop, Technical Talks, Motivational class, Seminars, Presentation.
