

ABHAY TRIPATHI

Final Year B.Tech CSE Student (2025 Batch)

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Experience

Software Engineer
Intern

All India Council for Technical Education (AICTE)
(Internship)

[May 2024 – Present]
Delhi (India)

- ❖ Automated 75% of the translation process for 721 Skill Books in 9 Indian Languages for use in Skill Training Centres across India by the Ministry of Skill Development and Entrepreneurship, GoI. Now working with NCERT to automate 80% of their books translation process.
- ❖ Developed Software to translate documents while maintaining 95 - 99% formatting using Made in India LLM based Translator, Anuvadini. Currently working to increase the accuracy of the LLM Model by training the model on new type of data.
(Python, Node.js, React.js, HTML, Cascading Style Sheets (CSS), Express.js, JavaScript)

Freelance
Software Developer

Manipal University Jaipur Alumni Association
(Freelance Work)

[Mar 2024 – May 2024]
Jaipur, Rajasthan (India)

- ❖ Created ATLAS, a Web Sockets-based LinkedIn Syncing Engine, cutting alumni data collection time by 90% and boosting accuracy by 70%.
- ❖ Built a custom data pipeline for consistent Alumni Data updates on Almashines (Third Party Official Alumni Database System) using ATLAS.
- ❖ Developed an Alumni Data Syncing Portal and a GenAI-based Gemini 1.0 Pro API-powered Dashboard for dynamic data management and visualization with React and Node.js. Created textual description-based insights using MongoDB Queries and Prompt Engineering.
(Python, Web Sockets, Selenium, MongoDB, MySQL, Express.js, React.js, Node.js, Bash, REST APIs, JavaScript, TypeScript)

IT Infrastructure Lead
and Software Engineer Intern

Youth4Nation Foundation
(Internship)

[May 2023 – Jul 2023]
Delhi (India)

- ❖ Created a LAMP-based Website (optimized for SEO), Member Enrollment System with proper ID Card System and secure SHA-256 based authentication system, digitizing enrollment for over 1000 members and reducing onboarding and members management time by 75%.
- ❖ Designed and implemented a mathematical algorithm for generating reference codes to prevent letter forgery, set up automated email capabilities using Python reducing group mailing time by 60%, developed a payment system using Web Hooks and existing solutions.
(JavaScript, Cascading Style Sheets (CSS), jQuery, Apache, MySQL, PHP, HTML, Bash, Bootstrap, Python, Linux)

Full Stack
Web Developer Intern

Manipal University Jaipur
(Internship)

[Jan 2023 – Mar 2023]
Jaipur, Rajasthan (India)

- ❖ Worked on appraisal web portal for Manipal University Jaipur, streamlining the process for 500+ staff and reducing time by 60%.
- ❖ Improved the portal's security and performance by patching vulnerabilities and optimizing the tech stack. (MongoDB, React.js, Python)

Projects

- ❖ **FaceTrack**: AI Based Facial Attendance Web App used to mark attendance based on facial data of the students.
[Link to project](#). (OpenCV, Python, Web Sockets, HTML, CSS, JS, Bootstrap, OpenCV.js). [Jan 2023]
- ❖ **Jardle**: Completely offline Java App Version of the famous word-guessing game Wordle, with extra features!
[Link to project](#). (Java, Java Swing). [Nov 2022]
- ❖ **TeleOperation**: VR App which is made to demonstrate the Proof of Concept of TeleOperation which was ideated by @akshetpatel. TeleOperation is the ability to control mechanical devices virtually using remote technologies.
[Link to demo video](#). (Unity Game Engine, Oculus SDK (C#), TCP Connections). [May 2022 – Jun 2022]
- ❖ **DigiFriend**: App which makes your phone like a smart device. Simply keep talking without pressing any buttons.
[Link to project](#). (Java Android SDK, TTS Service, AWS EC2, NGINX, Flask, Python, MySQL) [Feb 2021 – Mar 2021]
- ❖ **QueueScan**: App for starting virtual queues with any QR code, completely anonymously with no registration/KYC.
Link: [queuescan.com](#). (Java Android SDK, HTML, CSS, JS for PWA, Firebase). [May 2020 – Jun 2020]

Education

Bachelor of Technology - Computer Science and Engineering, Manipal University, Jaipur (7.67 / 10) [2021 – 2025]

- ❖ Received Dean's List Excellence in Academics Award for 3rd Semester for scoring 9+ GPA.

Top Achievements and Certifications

- ❖ LeetCode - Java: 200, 100 and 50 Days Badge 2024, 50 Days Badge 2023. LeetCode Profile (@abhaytr): <https://leetcode.com/abhaytr>
- ❖ Filed Patent on a Solution to identify "Deepfake" Videos.
- ❖ Cleared Aptitude Round of Goldman Sachs Engineering Campus Hiring Program 2023 for Summer Analyst role.
- ❖ [Goldman Sachs Virtual Engineering Program](#) | [Object Oriented Programming in Java \(by UC San Diego\)](#) | [Data Structures \(by UC San Diego\)](#).