

ABHAY TRIPATHI

Final Year B.Tech CSE Student (2025 Batch)

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Experience

Software Engineer Intern [All India Council for Technical Education \(AICTE\), Government of India](#) [May 2024 – Present]
Delhi (India)

- ❖ Implemented app to automate translation and vetting process (90-95% accuracy) for documents in [InDesign](#), [CorelDRAW](#), and [MS Office](#).
- ❖ Spearheaded **book translation projects** for [NCERT](#), [Skill Ministry](#), [NABH](#), [PWD Department](#), etc. impacting 10 million+ Indian students.
- ❖ Developed app to digitize **scanned documents**, maintaining formatting (95% accuracy), helping clients like [IEPF](#) speed up their processes.
- ❖ Reduced translation time for a **250-page book** from **1 year to 15 days to 1 month**, including vetting, with **100% accuracy**.
(Java, Python, Node.js, React.js, HTML, Cascading Style Sheets (CSS), Express.js, JavaScript)

Freelance Software Developer [Manipal University Jaipur Alumni Association](#) [Mar 2024 – May 2024]
Jaipur, Rajasthan (India)

- ❖ Innovated **ATLIS**, a **Web Sockets-based LinkedIn syncing engine**, enabling **data collection for over 15,000+ alumni**.
- ❖ Created a **data pipeline for continuous alumni data updates** on [Almashines](#) using ATLIS, reducing processing time from **2 months to 1 day**.
- ❖ Built an **Alumni Data Syncing Portal** for data management and an **AI dashboard** providing prompt-based insights through MongoDB queries.
(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](#) [May 2023 – Jul 2023]
Delhi (India)

- ❖ Established a LAMP-based website with a **member enrollment system**, **ID card integration**, and secure **SHA-256 authentication**.
- ❖ Digitized enrollment for over **1,000 members**, reducing onboarding and management time from **5 months to 1 month**.
- ❖ Formulated a **mathematical algorithm for generating reference codes to prevent letter forgery** and set up **automated emails**.
(JavaScript, Cascading Style Sheets (CSS), jQuery, Apache, MySQL, PHP, HTML, Bash, Bootstrap, Python, Linux)

Skills

- ❖ Programming/Scripting + Testing/Automation : Java, Python, C# (Intermediate), C, Bash Scripts, Shell Scripts, Selenium.
- ❖ Frontend Technologies : JavaScript, TypeScript, React.js, HTML, CSS, Bootstrap, jQuery, Java Swing, Tkinter, PyGame.
- ❖ Backend Technologies : Node.js, Express, PHP, Apache, NGINX, Flask, FastAPI, Web Sockets, TCP-IP, REST APIs, CGI, CDN.
- ❖ AI/ML, Databases and Cloud : TensorFlow, OpenCV, PyTorch, MySQL, MariaDB, MongoDB, SQLite, AWS EC2, Firebase.
- ❖ Android and Virtual Reality (VR) App Development : Android Development (Java SDK), Unity 3D, Oculus SDK (VR).
- ❖ Course-Work : Cryptography, MVC, Software Design Patterns, Git.

Projects

FaceTrack [Jan 2023]

- ❖ **AI Facial Attendance Web App** marks attendance with **90% accuracy** using students' facial data, preventing fraudulent attendance.
- ❖ [Link to project](#) (OpenCV, Python, Web Sockets, HTML, CSS, JavaScript, Bootstrap, OpenCV.js).

Jardle: Offline Java version of [Wordle](#) with additional features. [Link to project](#). (Java, Java Swing). [Nov 2022]

TeleOperation [May 2022 – Jun 2022]

- ❖ **VR App** demonstrating **Proof of Concept for TeleOperation**, ideated by [@akshetpatel](#). TeleOperation enables **remote control of mechanical devices** using virtual reality technologies, with **50-60 milliseconds of latency**.
- ❖ [Link to demo video](#) (Unity Game Engine, Oculus SDK (C#), TCP Connections).

DigiFriend [Feb 2021 – Mar 2021]

- ❖ **App** transforms your phone into a **smart device**, enabling continuous **voice interaction without pressing buttons**.
- ❖ [Link to project](#) (Java Android SDK, TTS Service, AWS EC2, NGINX, Flask, Python, MySQL).

QueueScan [May 2020 – Jun 2020]

- ❖ **App** for **virtual queues** using any **QR code**, allowing **1-10 person(s)** in store at a time for **safe social distancing**, without registration or KYC.
- ❖ [Link to project: queuescan.com](#) (Java Android SDK, Apache, HTML, CSS, JavaScript for PWA, Firebase).

Education

- ❖ Bachelor of Technology - Computer Science and Engineering, Manipal University, Jaipur (7.61 / 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**. Working on solution for **seamless typing for smart glasses** like [Meta Orion](#).
- ❖ **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 \(by UC San Diego\)](#).