ABHAY TRIPATHI

Final Year B.Tech CSE Student (2025 Batch)

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Experience

Software Engineer	**All India Council for Technical Education (AICTE), Government of India**	**[May 2024 – Present]**
Intern	**(Internship)**	**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	**Manipal University Jaipur Alumni Association**	**[Mar 2024 – May 2024]**
Software Developer	**(Freelance Work)**	**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	**Youth4Nation Foundation**	**[May 2023 – Jul 2023]**
and Software Engineer Intern	**(Internship)**	**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**, **Express**, **HTML**, **CSS**, **Bootstrap**, **jQuery**, **Java Swing**, **TKinter**.
- ❖ Backend Technologies : **PHP**, **Apache**, **NGINX**, **Node.js**, **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).