

# ABHAY TRIPATHI

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## Experience

Software Engineer      **All India Council for Technical Education, Government of India**      (May 2024 – Present)  
Intern      Internship      New Delhi, Delhi, India

- ❖ Implemented Anuvadini LLM based translation app for documents in InDesign, CorelDRAW, MS Office, Canva.
- ❖ Directly working with Dr. Buddha Chandrasekhar, CCO, AICTE to break language barriers in education thru tech.
- ❖ Developed Java Desktop App for IEPF, Ministry of Corporate Affairs to digitize and analyse scanned documents.
- ❖ Spearheaded translation projects for NCERT, Skill Ministry, NABH, etc., directly impacting many Indian students.

IT Infrastructure Lead      **Youth4Nation Foundation**      (May 2023 – Jul 2023)  
and Software Engineer Intern      Internship      New Delhi, Delhi, India

- ❖ Established LAMP-based website with member management system with ID card, authentication, auto mailing.
- ❖ Formulated algorithm for generating stateless reference codes, which can be verified to prevent letter forgery.
- ❖ Brought down member enrollment time from 1 week to 1 day (85% reduction), digitizing the complete process.

## Projects

**Collective Alumni Management Portal**      (Jan 2024 – Mar 2024)

- ❖ Alumni LinkedIn Data Syncing Portal + AI dashboard for prompt-based insights via MongoDB queries and Llama.
- ❖ Innovated a Web Sockets-based LinkedIn syncing engine, enabling data collection for 15,000+ alumni in 3-4 days.
- ❖ [Link to project](#) (Python, Web Sockets, Selenium, MongoDB, MySQL, Express, React, JavaScript, TypeScript)

**FaceTrack**      (Jan 2023)

- ❖ AI Facial Attendance App to mark attendance using student's facial data, preventing fraudulent attendance.
- ❖ [Link to project](#) (OpenCV, Python, Web Sockets, HTML, CSS, JavaScript, Bootstrap, OpenCV.js)

**QueueScan**      (May 2020 – Jun 2020)

- ❖ App for anonymous virtual queues via any QR code, allowing people management for safe social distancing.
- ❖ [Link to project](#) [published on [Play Store](#)] (Java Android SDK, Apache, HTML, CSS, JavaScript for PWA, Firebase)

**DigiFriend**      (Feb 2021 – Mar 2021)

- ❖ App that transforms your phone into a smart device, enabling continuous hands-free voice-based interaction.
- ❖ [Link to project](#) (Java Android SDK, TTS Service, AWS EC2, NGINX, Flask, Python, MySQL)

**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)

## Skills

Java | Python | C | Selenium | JavaScript | TypeScript | React.js | HTML | CSS | Bootstrap | jQuery | Node.js | Bash  
Express | PHP | Apache | NGINX | Flask | FastAPI | Web Sockets | TCP-IP | CGI | MySQL | MariaDB | MongoDB | Git  
Native Android (Java SDK) | Oculus SDK (VR) [C#] | Firebase | TensorFlow | OpenCV | PyTorch | AWS EC2 | Unity 3D

**Course-Work**: OOPS | DSA | Computer Networks | Design Patterns | Cryptography | UI/UX | Computer Architecture

## Education

- ❖ Bachelor of Technology, Computer Science 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 (@abhaytri) - Java: 200-, 100- and 50-Days Badge 2024, 50 Days Badge 2023, 9 Daily Coding Badges.
- ❖ Developing a patent for identifying "Deepfake" videos and easier typing for smart glasses, such as Meta Orion.
- ❖ Cleared Aptitude Round of Goldman Sachs Engineering Campus Hiring Program 2023 for Summer Analyst role.
- ❖ [Goldman Sachs Virtual Engineering Program](#) | [OOP in Java \(by UC San Diego\)](#) | [Data Structures \(by UC San Diego\)](#)