

ABHAY TRIPATHI

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Skills

- ❖ Java | Python | C# | C | JavaScript | TypeScript | Node.js | React | Express | PHP | Linux | Apache | NGINX | MySQL | MongoDB
- ❖ HTML | CSS | Bootstrap | jQuery | Flask | FastAPI | MariaDB | TCP-IP | Web Sockets | REST APIs | CGI | CDN | TensorFlow | OpenCV | PyTorch
- ❖ Android Development (Java SDK) | Unity | Oculus SDK (VR) | Java Swing | TKinter | PyGame | AWS EC2 | Firebase | MVC | Design Patterns | Git
- ❖ Full-Stack Development | Android Development | VR Development | SQL | NoSQL | Cloud Hosting | Cryptography | TCP Networks | SQLite

Experience

IT Infrastructure Lead
and Software Engineer

Youth4Nation Foundation

May 2023 – Jul 2023
Delhi (India)

- ❖ Created an online presence of the Organization by designing and implementing the Organization's Tech Stack (E-Mail Hosting, Web Hosting, Payment System, etc.) and developing the [Organization's Website](#), and optimized it for SEO.
- ❖ Designed and developed a Member Enrolment System Software with ID Card Facility which is being used to enrol 1000+ existing Members and all future Members. Developed an Online Payment System using existing solutions.
- ❖ Developed a Member E-Mail OTP Based Authentication and SHA-256 and Salting based Session System. Designed and developed a Secure Authorization based CDN to store digital photos of the Members of the Organization securely.
- ❖ Designed a Stateless Reference Code Generation Algorithm and developed a System to use the same using which Reference Codes can be generated for letters issued by the Organization, which can later verify authenticity of the issued letter, hence providing credibility for the letters issued by the Organization.
- ❖ Technologies Used: LAMP (Linux, Apache, MySQL and PHP) Stack, HTML, CSS, Vanilla JavaScript, Bootstrap, jQuery. Developed an Automatic Mailing System for sending professional emails using Python.

Full Stack
Web Developer

Manipal University Jaipur

Jan 2023 – Mar 2023
Jaipur (India)

- ❖ Worked on the development of the HR-Employee Appraisal Web Portal which is being used to conduct the appraisal process of 500+ employees and professors. Made the Web Portal highly secure by patching critical security loop holes.
- ❖ Re-Organized the Tech Stack to make the Web Portal highly fast and more efficient.
- ❖ Technologies Used: HTML, CSS, React.js, Python (Uvicorn Web Server), REST APIs (developed using FastAPI), MongoDB.

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]
- ❖ TeleOperation: VR App which is made to demonstrate the Proof of Concept of TeleOperation which was ideated by [@akshetpate](#). 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 download app](#). (Android SDK, TTS Service, AWS EC2, NGINX, Flask, MySQL). [Feb 2021 – Mar 2021]
- ❖ QueueScan: App for starting virtual queues with any QR code, completely anonymously with no registration/KYC. Link: [queuescan.com](#). (Android SDK, HTML, CSS, JS for PWA, Firebase). [May 2020 – Jun 2020]

Education

Third Year Student, Bachelor of Technology in Computer Science and Engineering (CSE),
Manipal University Jaipur, Rajasthan, India - 2021 to 2025.

Certifications, Achievements and Other Details

- ❖ [Goldman Sachs Virtual Engineering Program](#) | [Object Oriented Programming in Java \(by UC San Diego\)](#) | [Data Structures \(by UC San Diego\)](#).
- ❖ **HackerRank**: 5★ 30 Days of Code Badge, 4★ Problem Solving Badge, 3★ Java. Developed multiple modules in C, Python, Java and JavaScript for various utilities and functionalities ([GitHub Link](#), [PyPi Link](#), [Portfolio Website Link](#), [HackerRank Link](#)).
- ❖ Developed [MultiCrypt Algorithm](#) for Secure Hybrid Encryption (Modified RSA + Own algorithm for Symmetric Encryption).
- ❖ Developed a small level Custom Protocol on TCP. Developed Server for the same in C and Client for the same in Java.