

# Tirth Jain

CS UNDERGRAD

☎ (+91) 7506 30 9870 | ✉ jaintirth24@gmail.com | 🌐 hedonhermdev | in tirthjain

## Education

### Birla Institute of Technology and Science

Pilani, Rajasthan

BACHELOR OF ENGINEERING IN COMPUTER SCIENCE (HONS)

May 2023

- **Extra-Curricular** - ACM Software Development Team Lead | Backend Developer at DVM | Member of Mime Club

## Experience

### Assist (Startup)

Pilani, India

DEVOPS ENGINEER

July 2020 -

- Deployed the application architecture consisting of: a **web server**, a **Neo4j database**, a **PostgreSQL database** and an **Ejabberd** server on AWS using services like **Elastic Beanstalk**, **Amazon RDS** and **Amazon S3**.
- Built a **CI/CD** pipeline using **GitHub Actions** to continuously ship fixes and new features.

## Projects

### BPPC Marketplace

- Developed a **GraphQL API** with **Django** for an app that aims to make buying/selling of items between students on campus easier.
- Used **ElasticSearch** to index the database for searching.
- Containerized the application using **Docker** and **docker-compose** for easy deployment.
- Deployed this application on **DigitalOcean** to serve it to students on campus.

### UniversalCMS

- Used **Django** and **React** to develop (with one other teammate) a content management system that can integrate with almost any 'static' website.
- This CMS was adopted by the BITS Pilani University for its official website used across all four campuses.

### Pi Face Detection Lights

- Built a system using a **Raspberry Pi**, a camera and LED lights to switch on the lights on my desk whenever I sit on the chair.
- Used TCP/IP sockets to continuously stream images from the Raspberry Pi to the image processing server.
- Developed an **HTTP API** for the lights to receive commands from the image processing server.

## Skills

**Languages**   **Advance:** Python, JavaScript | **Intermediate:** GoLang | **Basic:** Rust, C, Shell  
**Frameworks**   Django, Flask, Express  
**Technologies**   SQL Databases, NoSQL Databases, Neo4j, Docker, AWS, Nginx, Unix

## Achievements

**EUvsVirus Hackathon**   Won 2nd place in the Real Time Communications and Prevention domain  
**JEE Advance**   All India Rank 2632  
**BITSAT**   Score: 387/450