

# ASHUTOSH TRIPATHY

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[Portfolio](#)

## EXPERIENCE

**Python Development:** Proficient in Python with expertise in Flask and Streamlit, Django for application development.

**Containerization and Cloud:** Skilled in Docker containerization and cloud deployment for scalable applications.

**AWS Experience:** Designed, developed, and rigorously tested applications on AWS.

**Tech Solutions:** Provided strategic technological recommendations to meet business objectives.

**Quality Assurance:** Executed comprehensive testing for reliable software solutions.

## Education

### National Institute of Science and Technology

Bachelor of Technology in Computer Science - 8.30 CGPA

Dec. 2020 – Mar. 2024

Berhampur, Odisha

### Govt. Autonomous College

Intermediate - 65.33 Percentage

May 2018 – Mar. 2020

Rourkela, Odisha

### Adarsha Vidya Mandir

Matriculation - 86 Percentage

2018

Rourkela, Odisha

## Coursework

- Data Structures
- Database Management
- Agile Development
- Software Design
- Cloud Computing
- Operating System

## Projects

### Library Management System | Python, Flask, Numpy, Pandas, Docker

March 2023

- Created an online platform for library where students can issue books, view available books.
- Implemented machine learning algorithm for book recommendation system which helps students to find similar books as per their requirements.
- It has user authentication system for which it is secured for each and every users.
- Used Docker to containerize this application.

### Movie Recommendation System | Python, Streamlit, Numpy, Pandas, Picklefile

November 2022

- Created web based movie recommendation system using machine learning where user can search similar movies as per the genre, director, cast, name.
- When user search any movie then similar movie details will be shown to the user with the help of streamlit GUI.
- Containerize the application using Docker and host it on Heroku.

### Realtime Collaborative Whiteboard | Python, Flask, Websocket, Javascript, SQLAlchemy

August 2023

- Designed an online whiteboard which is helpful for business discussion, online tutorial, 2D painting and data management.
- Used Flask and SQLAlchemy for database and backend, Websocket and javascript for realtime communication and UI.
- User can create group and share code join the other members, the group creator has default drawing access and can grant permissions to members. Its scalability allows for future expansions and integrations, making it a versatile tool for organized and interactive group collaboration.

### Blog Page | Python, Django

November 2022

- Created a blog page where every user can create their own blog and post it on this platform and others can view, like and post comments, share and follow the user.
- It is created using Django for backend and HTML, CSS, JS for frontend.
- Containerize the application using Docker and host it on Heroku.

### Online QR Code Scanner | Python, OpenCV, Flask

July 2023

- Created online QR Code scanner where user scan any qr it redirects to the interface of that qr code.
- Involves capturing video frames from a camera, processing each frame to detect QR codes, and then decoding the information contained in the QR codes.

### Github Profile Finder | Html, CSS, JS

July 2022

- Created online platform where user can find any github user's profile using his/her username.
- It fetches the json file of user from github api and shows the user's details and redirects to the user's github account.

## Technical Skills

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**Languages:** Python, Java, C, HTML/CSS, JavaScript, My SQL, Postgre SQL, Bash

**Developer Tools:** VS Code, Google Cloud Platform, Amazon Web Services, Heroku, GitHub, Docker Hub, Microsoft Azure

**Technologies/Frameworks:** Linux, Git, Flask, Django, Docker, Kubernetes, Ansible, WebSocket, CI/CD pipelining

## Extracurricular

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### Cloud Computing Club

**Spring 2022 – Present**

*Secretary*

*National Institute of Science and Technology*

- Application development and deployment on cloud servers like AWS, GCP.
- Managed executive board of 5 members and ran weekly meetings to oversee progress in essential parts of the chapter.
- Done workshops in college about application hosting on Amazon Web Service.

## Certifications

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**Oracle:** Cloud Data Management

**NPTEL:** Cloud Computing

**IBM Cognitive Class:** Kubernetes and OpenShift V2

**Hackerrank:** Java, Python

## Coding Profiles

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**Leetcode:** [www.leetcode.com/Ashutoshtripathy22/](https://leetcode.com/Ashutoshtripathy22/)

**GeeksForGeeks:** <https://auth.geeksforgeeks.org/user/ashutoshtripathy408/practice>

**Codechef:** [www.codechef.com/users/ashutosh444](https://www.codechef.com/users/ashutosh444)

**Hackerrank:** [www.hackerrank.com/ashutosh2002t](https://www.hackerrank.com/ashutosh2002t)