

ANANT PANDEY

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EDUCATION

Indian Institute of Technology Kharagpur

Dual Degree in Civil Engineering (8.3/10.0)

Kharagpur, West Bengal

July 2019 – May 2024

INTERNSHIP EXPERIENCE

Standard Chartered | *Software Development Engineer* | Bengaluru, Karnataka

May 2023 – July 2023

- Implemented a Java application leveraging **Java Reflection** to analyze class structure, extract field information, and generate **JSON** objects for unit testing, enhancing efficiency and eliminating manual object creation tasks.
- Dynamically scanned the Model for **Schema, Constraints**(Size, Min, Max), and initialized the values accordingly
- Employed Java reflection library to automatically scan and analyze all the models in the Java application, Utilized **RESTful** from **Spring Web** to efficiently transfer JSON data from backend to frontend using **GET** mapping
- Developed a responsive **React** app to visualize the scanned models and download the corresponding JSON data
- Designed a flexible and dynamic Java testing class capable of testing multiple **service** and **controller** classes, Utilized Java reflection to scan and analyze the structure of target classes and identify methods to be tested.
- Utilized **JUnit** and **Mockito** to perform unit testing on service classes, ensuring proper isolation of dependencies.
- Employed **MockMvc** for comprehensive unit testing of controller classes, including request and response handling.

PROJECTS

AnyTimeFood | *Python, Django, Docker, RabbitMQ*

February 2022 – April 2022

- Designed a Scalable Food delivery app using **Microservice architecture** working even in data center's downtime
- Built the Essential (Restaurant) & Non-essential (User profile, Restaurant profile) microservices for the application
- Engineered **Models, Serializers**, and **class-based views** (utilizing **OOPs** concepts) for Restaurant microservice
- Created API unit tests using the **Django REST** Framework, also containerized each microservice using **Docker**
- Used **RabbitMQ** as the message broker keeping the microservices in sync & handle data replication between them
- Used Sendgrid(cloud-based SMTP provider) to send email to users informing them about up/down time of servers

Concrete Strength Predictor | *Python, HeroKu, StreamLit*

Sept. 2020 – Nov. 2020

- Trained a ML model to predicts the **strength** of concrete using the Concrete Strength Prediction dataset, Kaggle
- Exploratory Data Analysis was done using **matplotlib** to find observations & correlation of features with strength
- Achieved **RMSE** as 4.15 on applying **Random Forest** Regressor after tuning the hyperparameters of the model
- Designed the web application for the trained model using HTML, CSS & Streamlit and deployed it on Heroku

Sudoku Solver

Dec. 2020 – Dec. 2020

- Implemented **Backtracking** algorithm to generate exact cover for 9 x 9 grid using HTML, CSS, and JavaScript
- Error message is displayed every time, the user puts an existing number in a cell preventing violation of game rules
- Edge cases were handled properly ensuring that the user do not enter any number except from one to nine as input

TECHNICAL SKILLS

Languages: C, C++, Java, Python, HTML/CSS, JavaScript, SQL

Frameworks: Spring Boot, React Js, Numpy, Pandas, matplotlib, Bootstrap, Django RestAPI

Developer Tools: IntelliJ Idea, Visual Studio Code, Git, Github, BitBucket, Postman, AutoCAD, Jupyter Notebook

POSITIONS OF RESPONSIBILITY

InterIIT Tech meet 10.0

Dec. 2021 – March 2022

Assosiate Manager

IIT Kharagpur

- Forged associations worth INR 15 lakhs with major organizations like Mercari Japan, Bosch, ISRO and DRDO

ACHIVEMENTS & EXTRACURRICULAR

- Secured rank among the top **3%** of students out of 0.2 million candidates appearing for the **JEE Advanced**, 2019
- Ranked in the top **0.8%** of students out of 1.2 million appearing candidates for **JEE Main Examination**, 2019
- Awarded a scholarship for achieving **1st** rank among 300 students at Lucknow Public School in the **AISSCE**, 2018