SAURABH SANJAY FASATE

Capgemini | M. Tech, IIT Kanpur

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EXPERIENCE

Associate Consultant
Capgemini

📅 Aug 2022 – present   📍 Bangalore Karnataka

- **Drift Communication Service**
  - Succesfully led the design and development of enterprise-level microservices for a merger of two giant Telecom Groups, serving 11 million customers in Europe using **AWS, Java, Spring Boot, PL/SQL, and Linux**.
  - Created detailed **Low-Level Design documents** covering system requirements and fault tolerance strategies; **improved system reliability** by 25% and minimized error rates, ensuring robust performance and scalability.
  - Build a **web application using 3-tier architecture** for real-time outage notifications to consumers via email and SMS.
  - Created a microservice for **nightly ETL**, transferring data from Azure Databricks to Oracle servers to fetch customer data using AOuth.
  - Enhanced and optimized web application performance by 20% through effective implementation of **indexing in PL/SQL**
  - Conducted code reviews, and performed load, stress, unit, integration, and E2E testing.
- **Broker Application**:
  - Integrated multiple third-party network provider systems with an error-registering ticketing system to log network issues from customers and outages from providers.
  - Developed backend REST APIs with POST, PATCH, and GET requests for creating, updating, and retrieving trouble ticket information.
  - Designed and implemented cron jobs to fetch customer details and complaints, automating the transfer to the respective network providers.
- **Munity Social Media REST App**:
  - Developed and deployed a social media REST API: "Munity" (*GITHUB Link*)
  - **Competency**: Core Java, Java 8, Spring boot, Hibernate, PostgreSQL, Maven, Git, Docker, Kubernetes, Google Cloud Platform
- **Google Cloud Asset Development**:
  - Developed and deployed an asset for GCP using python scripting on Google Cloud Platform
  - **Competency**: Python scripting, MySQL database , Google Cloud Platform

PROJECT HIGHLIGHTS

Investigation and Mitigation of Damage in Suspension-Type Transmission Line Towers Due to Sudden Snapping of a Conductor (M.Tech thesis)

📅 May'21 - June'22

- Non-linear Failure Analysis of transmission line system
- Developing a device to **Reduce the Cascading Failure** of transmission line.
- Characterized a damping device using Ansys python scripting

Portfolio hosting using GITHUB

- Developed and hosted a profile page on a web-browser using a free hosting feature of Github
- Made use of "Github Action" CI/CD tool for continuous updation of the Profile page

Sorting Algorithm Visualization (*GITHUB Link*)

- Developed a Java Application which will visualize the sorting algorithms.
- Implemented a few sorting algorithms like Bubble sort, Quick sort.

SUMMARY

Back-end developer with a master's degree and 2+ years of experience in designing, developing and implementing Enterprise level Web Applications, API's, third-party integration, databases, Strong problem-solving skills and ability to contribute to all phases of software development life cycle. Seeking opportunities to utilize my technical expertise and collaborate with a dynamic team

SKILLS

Back End	Java 8, Python, C++
Front End	HTML, CSS, JavaScript
DBMS	Oracle PL/SQL, Indexing
OS	Linux, Windows
DevOps	Docker,Kubernetes,AWS,GCP
Misc.	Springboot, Hibernate, Git, Maven, Postman, GitHub, OAuth, DSA, OOPs

EDUCATION

Year	Deg/Class	Institute	CPI/%
2020-22	M.Tech **Structures**	IIT Kanpur	**9.37/10**
2015-19	B.Tech **(Civil)**	COEP,Pune	7.28/10
2015	Class XII	HSC	85.08%
2013	Class X	SSC	91.92%

CERTIFICATION

Java Beginner to Master   (Udemy)

AWS Cloud Practitioner   (Udemy)

Python Data Structures   (Coursera)

Agile Software Development   (Udemy)

SCHOLASTIC ACHIEVEMENTS

Represented India at International Robocon

📅 27th August 2017   📍 Tokyo, Japan

- Stood **6th** amongst 19 Asian contries
- Developed a **Frisbee Throwing Robot**
  - Built a robot with 95% accurancy
  - Used Pressure regulator to vary range and landing position

Academic Excellence Award'20 IIT Kanpur

📅 2020-2022   📍 IIT Kanpur, India

POSITIONS OF RESPONSIBILITY

- **Teaching Assistant** ,IIT K | RCC design & Mechanics of Solid
- **Member** of Robot Study Circle (**Inventory Manager**) | COE Pune
- **Event Head** for **Robo-wars event** | COE Pune

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ROBOTICS PROJECTS

Developed an autonomous Quadruped Walking Robot

- Each leg has 3 DOF
- Servo actuators for synchronising walking gaits of robot

Developed an autonomous Shuttlecock Throwing Robot

- Cartesian co-ordinate mechanism.
- 4-wheel Mecanum omni-directional drive for locomotion

Developed an autonomous Frisbee Throwing Robot

- Pneumatic cylinder, linear actuators
- Used Pressure regulator to vary range and landing position

PERSONAL PROJECTS

Non-linear Analysis   Course project (CE622A)

- Study of Pre and Post **Buckling behaviour of simply supported beam** using Co-rotational Formulation.
- Developed own code in MATLAB.

Stability of Structures   Course project (CE622A)

- Developed a simplified model to simulate response of **3D printed Bi-Stable Mechanisms** which we can use as load switch.

Finite Element Method   Course project (CE622A)

- Analysed a **beam with a crack** using Finite Element Method in MATLAB.