

SUJAL BHAGAT HANSDA

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EDUCATION

Year	Institute	Degree/Exam	CGPA/Marks
2023	IIT Kharagpur (Metallurgical and Materials Engineeringg)	B. Tech	7.77/10
2019	Mother's Public School, Bhubaneswar	CBSE	85%
2017	Madnawati Public School	CBSE	9.6/10

EXPERIENCE

Great Kapital | Software Developer Intern

Dec 2022 - May 2023

- Developed and deployed a Spring Boot framework-based backend service that automated the digital signing of PDFs. Leveraged the Apache PDFBOX library to read and sign the PDF documents effectively. Created APIs to facilitate the digital signing and validation of PDFs stored in AWS S3 and PDFs retrieved from third-party API.
- Utilized Zoho webhooks to establish seamless communication and implemented a service to efficiently process and store webhook payloads in a PostgreSQL Database. Employed SQL queries and JDBC templates to ensure optimal handling and storage of webhook data.
- Enhanced various services by incorporating additional functionalities, such as performing CRUD operations on Zoho bills, invoices, and documents. Accomplished this by integrating with third-party APIs offered by Zoho ERP. Implemented an Event-Driven Architecture approach, utilizing Apache Kafka, to enable efficient and scalable communication between services.
- Strengthened security measures by implementing OAuth2 for secure authorization, ensuring only authorized users have access to protected resources. Additionally, integrated SwaggerUI to document and provide a user-friendly interface for REST API endpoints in the services, enabling easy exploration and understanding of the API functionality.

Suvidha Foundation | Data Science Intern

May 2022

- Employed BeautifulSoup and Scrapy Python scripts to perform web scraping on 5000 news article websites, successfully creating a comprehensive dataset for further analysis.
- Conducted pre-processing and cleaning of the dataset using NLTK library and regular expressions, ensuring high data quality and consistency. Utilized scikit library for Exploratory Data Analysis (EDA) to gain valuable insights and understand patterns within the dataset.
- Collaborated effectively with team members to develop and train an Abstractive Text Summarizer based on LSTM model, leveraging the dataset created earlier.

PROJECTS

IOT based Smart Vending Machine | Prof. Vikrant Rachrela

May 2022 - August 2022

- Utilized Autodesk Fusion for CAD design, employing 3D modeling and dimensional inspection techniques to create detailed machine designs.
- Conducted comprehensive literature surveys to gain valuable insights into the development of vending machines, understanding the associated challenges and potential solutions.
- Performed in-depth analysis of thermal properties of plexiglass, coefficient of performance (COP) of various refrigerants, and mechanical properties of HSLA steel to inform design decisions.
- Employed optimization techniques to minimize heat leak and energy consumption while ensuring the specified minimum interior volume requirements were met.
- Implemented an iterative design process to create a highly ergonomic bevel gear system, progressively enhancing the engagement probability and overall efficiency of the system.
- Constructed a drive motor traversal system with exceptional responsiveness and precise positioning capabilities, particularly in a 3-dimensional stage.

Freelancer Website UI | Self Project

April 2022

- Built a responsive freelancer website using JavaScript and leveraged React's component-based architecture to create reusable and modular UI elements.
- Employed SASS (Syntactically Awesome Style Sheets) to enhance the styling of the website and utilized the react-router-dom library to implement seamless and intuitive page navigation. Used react hooks to effectively manage and manipulate the state of the website.

SKILLS AND EXPERTISE

Programming Languages: Java, C++, Python

Tech Stack: Spring Boot, Kafka, RESTful Web Services, Postman, JPA, JDBC, Regex, GitHub, PostgreSQL, AWS, React, SwaggerUI.

EXTRA CURRICULAR ACTIVITIES

AZAD HALL IIT Kharagpur:

- Part of Badminton team | Gold in Gardening and Photography | Gold in Illumination
- Shot and edited first stop motion film for TFPS (Technology Filmmaking and Photography Society)

NSS IIT Kharagpur (2019-21):

- Camping, Surveying, Volunteering in nearby villages and teaching elementary class students.
- Worked on developing drainage system in rural and underdeveloped areas and spreading awareness about education and health.