

SUJAL BHAGAT HANSDA

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EDUCATION

Year	Institute	Degree/Exam	CGPA/Marks
2023	IIT Kharagpur (Metallurgical and Materials Engineeringg)	B. Tech	7.8/10
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 framework backend service** that automated the digital signing of PDFs. Leveraged the Apache PDFBOX library to read and sign the PDF documents effectively. Created **REST 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.

PROJECTS

Clipher - The internet clipboard | Self Project

April 2023

- Built an **online clipboard** which can be used to share text clipboard across the internet. Anyone can generate their clipboard and can share it with the unique generated link.
- Used **Node.js** and **Express.js** to handle backend requests and **PostgreSQL** to store and retrieve clipboard data. Used **React** and **JavaScript** to build the frontend of the website. Used **SASS** as a CSS-preprocessor and used **React Router Dom** to navigate between pages.
- Deployed and setup **Continuous deployment** on cloud for backend service and database in **Render**. Deployed frontend in **Netlify** using netlify CLI.

TodoTS - To-do App | Self Project

May 2023

- Built a Todo backend application using **TypeScript**, **NodeJS** and **ExpressJS**. One can create, update, read, and deletes todos. Implemented **SwaggerUI** for API documentation and testing. Used **MongoDB** to store todos in a database.
- Used **ts-node** to transform TypeScript to JavaScript. Created a **docker** image and deployed it on **Google Cloud Run**.

minYT - YouTube Extension | Self Project

February 2023

- Built a productivity YouTube extension that replaces the YouTube UI with a minimal UI, removing YouTube Recommendations, Shorts, Comments, Notifications and any other distractions. Built using JavaScript and CSS. Used JavaScript EventHandler and DOM API to change website's UI.

SKILLS AND EXPERTISE

Programming Languages: Java, C++, JavaScript, Python, TypeScript

Frontend Libraries/Frameworks: ReactJS, SASS, Material UI

Backend Libraries/Frameworks: Spring Boot, NodeJS ExpressJS, Apache Kafka, RESTful Web Services, JPA, JDBC, SwaggerUI

Database: PostgreSQL, MongoDB

System/Platform: Git, Linux, Docker, Postman, AWS, Azure, Regex

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.

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.