SATISH SAHU

Department of Biotechnology

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EDUCATION

Indian Institute of Technology, Kharagpur	**Kharagpur, India**
*Department of Biotechnology - **CGPA - 8.83/10***	*Dec 2020 - Present*
KhelGaon Public School	**Prayagraj, UP, India**
*12th CBSE Board - **Percentage - 93%***	*May 2018 - Apr 2019*
KhelGaon Public School	**Prayagraj, UP, India**
*10th CBSE Board - **CGPA - 10/10***	*May 2016 - Apr 2017*

INTERNSHIPS

Cloud Infrastructure Engineer | ITSO, Tokyo Japan — May'24 - Jul'24

- Collaborated in team to develop a web app like ChatGPT using OpenAI LLMs and RAG for corporate use
- With capabilities like NLP, context-retention, multimodal, content filter, indexed DB, login/signup/logout.
- Created custom action GPT APIs to automate Microsoft products like planner, to-do, outlook, MS teams.
- Developed a MS Teams chatbot using LLMs RAG, containerized deployed on azure cloud and teams store.

System Engineer (Backend Developer) | Cessini Pvt. Ltd, Kolkata — Dec'23 - Feb'24

- Built a robust backend for a video streaming web application using latest technologies like WebRTC, ICE, Redis, Socket.io, Apache Kafka, Elastic Search, Docker, Kurento, Kubernetes, AWS and Azure cloud.
- Collaborated in team to enhance microservices performance, testing APIs, and enhancing database services by utilizing Redis as a cache, also worked on system designing and development of scalable video calling app.

JavaScript Developer | CodeSpeedy Pvt. Ltd, Kolkata — Oct'23 - Jan'24

- Authored more than fifty articles on fullstack development, including topics such as JS/Next/React/Node.js
- Worked on Search Engine Optimization(SEO) and increased the CodeSpeedy web traffic by more than **2%**

Data Scientist | Psyliq, Pune, Maharashtra — Oct'23 - Dec'23

- Developed a movie recommendation web application using Machine learning and deployed over the streamlit.
- Used LSTM recurrent neural network over time series data to forecast the stock price of State Bank of India

PROJECTS

E-Charchaa | Video streaming web application using WebRTC — Dec'23 - Jan'24

- Created a secure authentication and authorization with Twilio for Otp, refresh, access token, completed an encryption task with crypto/jwt
- In the application, the user can create a new room in open/public/private mode other users can join it and communicate via voice and text

Portfolio | A develpoment Skills Portfolio Web App — Nov'23 - Dec'23

- Created an exclusive portfolio utilizing the MERN stack to highlight my expertise in the web development, using Reactjs, CSS, Bootstraps, Google Fonts, and Material UI, a responsive user interface was created for a range of screen sizes, along with light and dark themes
- Utilized the nodemailer API for email alerts and integrated react-redux, for advanced state management and deployed on AWS EC2 instance

Ebuy | Dynamic Clothing Ecommerce Store using Next.js — Feb'23 - Apr'23

- Successfully built a dynamic online clothing store using latest Next.Js and TailwindCSS technologies and included a Stripe payment method.
- Designed features include product filtering based on price range, category, sale, order history and summary, checkout and discount features, as well as admin features like product addition, email notification, order management, and delivery tracking
- Used firebase and mongoDB as databases, used Cookies and localStorage to handle Stripe sessions, and cached the data. Implemented a Secure authentication and authorization using bcrypt and jsonwebtoken module

TECHNICAL SKILLS

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

Tools and Technologies: React/Next/Node/ExpressJs, MongoDB, Firebase, Redux, Django, TailwindCss, AWS, Docker, PostgreSQL, GraphQL, Fast/Rest/ContextAPI, Bootstrap, Flask, Kafka, WebSocket, WebRTC, Socket, Kubernetes, Nginx, Linux, GitHub, Postman, Kurento, RTMP, Computer Vision, System Design, ML/DL/OpenAI, Arduino