Sayan Hazra

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EDUCATION

B. Tech. Computer Science and Engineering   Sept 2020 - Apr 2024
KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY   Bhubaneswar, Odisha
Cum. GPA: 8.83/10

WORK EXPERIENCE

PEGMAN | BACKEND ENGINEERING - INTERN   Remote | Aug 2023 – Oct 2023

- Engineered **scalable backend** delivery engine with a **microservices approach** for efficient order processing.
- Developed **8+ endpoints** across **2 microservices** integrating with **OMS** and **Aadhaar API** for e-KYC Verification.
- Contributed in design iterations and product strategy, driving **data-driven decisions** and **higher client satisfaction**.

HIGHRADIUS | PRODUCT ENGINEERING - INTERN   Remote | May 2023 - Jul 2023

- Built an **AI-Enabled** FinTech B2B Invoice Management application using React, Java, and MySQL.
- Deployed a payment prediction model with **80% accuracy** via **EDA** and **Feature engineering** using Python.

GRAPIXI | FREELANCE   Remote | Jun 2021 - Aug 2021

- Employed **HTML, CSS, JavaScript** & **jQuery** to built **responsive** portfolio with **cross-browser compatibility**.
- Led a team of **four** (TeamClover) **managing CI/CD workflows** for seamless updates on Netlify.

PROJECTS

SYNC SPEAK ↗   REACT.JS, WEBRTC, MONGODB

- Developed social audio app leveraging **WebRTC** & **SocketIO** for **real-time** chat with an average **latency of 45-75ms**.
- Architectured **microservices** and implemented the **MVC** pattern for improved scalability and maintainability.
- Orchestrated **protected routes** using 'react-router-dom' and efficient **global-state storage** using Redux.
- Integrated **Twilio API** for **OTP**-based authentication over sms /email to enhance security and user verification.

HEALTH VAULT ↗   REACT.JS, SOLIDITY, ETHEREUM

- Proficiently engaged in Decentralized Healthcare, developing a Electronic Health Records Management platform on Ethereum Blockchain, solving **interoperability** and **privacy** among stakeholders.
- Built **easy interface** using **React** and ensured the integrity and availability of decentralized records via **IPFS**.
- Utilized Solidity and **Truffle** for smart contract development and deploying locally with **Ganache** and Metamask.
- Strengthened platform integrating **Aadhaar API** for **e-KYC** authentication, **countering DDoS** and **Sybil** attacks.

CLOUD DRIVE ↗   EJS, EXPRESS.JS, MONGODB

- Engineered a secure, **scalable** cloud storage for file management & synchronization with direct relay to **S3 Bucket**.
- Designed dynamic user interfaces with **EJS** templates, enabling admin controls, search and **sharing** capabilities.

ACHIEVEMENTS

- **Google Hash Code:** Points scored: *20,92,461* , *Global Rank 1735* (*Country Rank 488*)
- **Codechef:** Max Rating: **5 star (2000)** , Best Performance: *Global Rank: 125* in June Cook-Off 2021 Division 2
- Cleared **Problem Solving (*Intermediate*)** and **Node Js (*Advanced*)** assessment by **HackerRank**.
- Qualified for **Level 2 in Flipkart GRiD 5.0** - Health+ Track, the **only team** from the college to do so.

SKILLS

Languages: Java, Javascript/TypeScript, Python, Solidity   **Databases:** MySQL, MongoDB, Redis, Prisma
Technologies: React, Node.js, Express, Truffle, WebRTC, SocketIO, Postman   **Cloud:** Linux, Docker, AWS (S3, EC2), Git Actions