

# Jayabrata Pramanik

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📍 Kolkata

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## EDUCATION

- **Techno Main SaltLake (CGPA: 8.03)** Kolkata, India  
*Bachelor of Technology - Electronics and Communication Engineering* November 2020 – July 2024  
**Courses:** Digital Signal Processing, Analog Communication, Digital Communication, Digital Circuits, Network Theory, Operating Systems, Data Structures and Algorithms, Analysis Of Algorithms, Computer Networks, Object-Oriented Programming, DBMS, ITC.

## SKILLS SUMMARY

- **Languages:** JavaScript, Typescript, Java, python, Solidity
- **Frameworks:** React, React Native, Nestjs, Threejs, Web3js, Etherjs, Tailwind CSS, Express, Nextjs, Sanity.io, Firebase, Nodejs
- **Database:** MongoDB, PostgreSQL, MySQL, Redis
- **Infrastructure:** Docker, Kubernetes, Git, GitHub Actions, AWS
- **Platforms:** Linux, Windows, AWS, GCP

## WORK EXPERIENCE

- **Junior Software Developer** TCS  
*September 2024 - Present* Kolkata
  - Working on **enterprise-level applications**, ensuring code quality and performance optimization.
  - Collaborating with senior developers and **cross-functional teams** to **contribute** to ongoing projects.
  - Writing clean, maintainable code and **following best practices** in software development.
  - Actively participating in **code reviews and team discussions** for process improvements.
- **Full Stack Developer Intern** INFOMATICA SOLUTIONS PVT. LTD  
*January 2024 - July 2024* Mumbai
  - **Developing** front-end and backend, **maintaining** full-stack websites to ensure **optimal functionality** and **exceptional user experience**.
  - **Crafted** an Internal Expense Tracker Website and App, **streamlining** expense management processes.
  - **Collaborating** with cross-functional teams to meticulously define project requirements, scope, and deliverables, ensuring perfect alignment with client goals and expectations.
  - **Technologies:** Proficiently utilizing **React, Nestjs, PostgreSQL, MongoDB, Docker**, and **GitHub** to deliver robust and scalable solutions.
- **Full Stack Developer & Blockchain Developer Intern** KNW Technologies  
*June 2022 - July 2023* Remote
  - **Developed and meticulously maintained** full-stack websites, ensuring **optimal functionality** and **exceptional user experience**.
  - **Pioneered** the creation of a blockchain-based NFT minting website, **implementing** smart contracts and **rigorous security measures** for digital asset management.
  - **Engineered and deployed** web scraping tools to gather valuable data for clients, **enhancing** their decision-making processes.
  - **Collaborated** with cross-functional teams to **meticulously define** project requirements, scope, and deliverables, **ensuring** alignment with client goals.

### • **Microservices-based Food Delivery Backend:** 🌐

- **Developed** a robust and scalable microservices-based backend for a food delivery platform using **NestJS** with a **monorepo architecture**, allowing for shared codebase management and improved development efficiency.
- **Designed** an HTTP API Gateway to handle all routes, ensuring a centralized entry point for all requests and **implemented** role-based access control to manage secure authentication and authorization for different user roles.
- **Created** distinct microservices for **User**, **Admin**, **Restaurant**, **Order**, and **Delivery Agent** functionalities, each responsible for its own domain logic, promoting modularity and ease of maintenance.
- **Utilized PostgreSQL** as the primary database to provide **reliable**, **consistent**, and **efficient** data storage and retrieval, ensuring data integrity and performance.
- **Containerized** the entire application using **Docker**, enabling **consistent** environments across different stages of development, testing, and production, which simplifies deployment and scaling processes.
- **Implemented NATS** as a messaging system to **facilitate** efficient communication between microservices.
- **Deployed** the application on **AWS EC2** to ensure **high availability** and **seamless scalability**.
- **Set up GitHub Actions** for a **streamlined** continuous integration and continuous deployment (CI/CD) pipeline.

### • **Doctor Booking and Video Consulting Website:** 🌐

- **Developed** a comprehensive full-stack website empowering users to seamlessly book doctor appointments and engage in video consultations.
- **Implemented** an innovative feature enabling automatic dispatch of video call links to users at their scheduled appointment time, enhancing convenience and accessibility.
- **Utilized React**, **Axios**, and **Material-UI** to craft a polished and intuitive frontend interface, ensuring an engaging user experience.
- **Employed Node.js** and **Express** on the backend to efficiently manage appointment scheduling and video call functionalities, ensuring robust performance and reliability.
- **Leveraged MongoDB** to securely store user and appointment data, maintaining confidentiality and data integrity.
- **Integrated Socket.io** to enable seamless real-time communication between users and doctors, fostering effective and immediate interaction.
- **Ensured** compliance with industry standards and best practices to deliver a secure, scalable, and user-centric solution, meeting the evolving needs of healthcare services.

### • **Quiz App:** 🌐

- **Developed** a dynamic quiz app offering users a challenging and interactive experience.
- **Integrated** an external API to fetch diverse and engaging quiz questions, enriching the app content and user engagement.
- **Enabled** users to participate in quizzes and receive scores based on 10 questions, with no question repetition, fostering engagement and competition.
- **Implemented React Native CLI** to ensure platform-native performance and smooth user interactions, delivering a seamless quiz-taking experience.

## HACKATHONS

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- Participated in various MLH online hackathons and won track prizes.
- Attended in-person MLH Diversion-2023 in Kolkata.
- Attended in-person Solana Hacker House Bengaluru.