Krishnendu Mondal

Software Developer | Technical Lead

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SUMMARY

I am a Technical lead with over 7 years of experience in designing and implementing scalable, high-performance applications using technologies like Node.js,Python, React.js, React Native ,Next.js, and AWS. Proven track record in leading teams to develop innovative solutions, including payment processing SDKs and AI-powered chatbots, while ensuring adherence to best practices in software architecture, security, and performance optimization. A driven technical leader and co-founder with a strong focus on delivering impactful projects, mentoring junior developers, and leveraging modern tools like Docker, Terraform, and CI/CD pipelines to enhance productivity and scalability. Known for adaptability, quick learning, and a collaborative approach to problem-solving.

EDUCATION

B.Tech in Mechanical Engineering - Heritage Institute of Technology,Kolkata
10+2 - St. Xavier's HIgher Secondary School

SKILLS
Language : Node Js , Python
Web technologies : HTML5, CSS3, Javascript ES6, XHTML
Cross Platform Mobile Dev : React Native
JS libraries : React Js, Angular Js, Jquery
Frontend Framework : Next Js , Gatsby Js
Database : MySQL , Postgresql, MongoDB
Version Control : Github , GitLab
DevOps : Docker, Github Action, Terraform,Kubernetes (beginner)
AWS : EC2, DynamoDB, Elastic Beanstalk, SNS,SQS,S3, Lambda, Api Gateway

Project Management : JIRA, Clickup
Others: Express js, WebRTC, React Flow, Tailwind css

WORK EXPERIENCE - 7Yrs

- **Technical Lead (NEXT JS , Node js, React Native , React JS)**
  Techwens Pvt. Ltd. - Kolkata
  May 2024 - Nov 2024
  Key responsibility and achievement:
    - Work with product managers and stakeholders to understand project requirements, define technical scope, and estimate time and resources.
    - Break down large tasks into manageable subtasks, assign responsibilities to team members based on skill sets, and set realistic deadlines.
    - Developed a **Anomaly detection system from docker container logs** using Python ,Random Forest Model in Hugging Face Transformer
    - Created a **AWS** system design for a Lead Generating System for Travel Booking Agency
    - Designed and developed **A low code tool which will deploy any docker image to any cloud providers** using **Node js, Angular Js**
    - Monitor project progress, track deliverables, maintain **JIRA** and ensure the project remains on schedule. Proactively identify potential bottlenecks and adjust timelines as needed.
    - Ensure technical documentation is thorough and up-to-date, covering system architecture, code, APIs, and any configuration details for future reference.

- **Senior Full Stack Developer**
  Techwens Pvt. Ltd. - Kolkata
  Dec 2023 - May 2024
  Key responsibility and achievement:
    - Created payment solution SDK in node js for multiple use
    - Led a team of 4 developers in creating an **AI-powered sales channel chatbot** for a retail website, designed to enhance customer engagement and improve sales conversions.
    - Developed Expense Tracker mobile app in **React Native**
    - Designed and implemented RESTful APIs and microservices using **Node.js** and **Express**, enabling seamless data integration across applications.
    - Deployed and managed application infrastructure on **AWS** (EC2, S3, Lambda, RDS), improving application reliability and scalability by 40%.
    - Leveraged **Docker** to containerize applications, significantly reducing development setup time and improving deployment consistency.

- Implemented Infrastructure as Code (IaC) with **Terraform** for provisioning and managing cloud resources, reducing manual setup time by 50%.

- **Senior Fullstack developer**
  Cribate Pvt. Ltd. - Jaipur (closed)
  February 2023 - November 2023
  Key responsibility and achievement:
    - Developed and maintained a text based **social media platform** using **Node.js** for backend services and **React Js** for responsive and interactive front-end applications.
    - Optimized the existing codebase, reducing load times by 30% and improving overall application performance through strategic refactoring and the implementation of best practices.
    - Designed RESTful APIs and integrated them with cloud services on **AWS** to enhance application scalability, performance, and security.

- **Co-Founder and Fullstack developer**
  Horsemen Energy Pvt. Ltd. - Kolkata
  April 2020 - January 2023
  Key responsibility and achievement:
    - Led the development of innovative energy management solutions, overseeing both frontend and backend development with a tech stack that included **Node.js**, **React.js**, **OCPP protocol** and **MongoDB**.
    - Designed and implemented a scalable system architecture to handle real-time data processing for energy monitoring applications, ensuring high availability and efficient data handling.
    - As a co-founder, recruited and managed a team of 6 developers, fostering a collaborative work environment, providing mentorship, and encouraging continuous learning.

- **Junior Fullstack developer**
  OyeLabs Pvt. Ltd. - Gurgaon
  September 2018 - February 2019
  Key responsibility and achievement:
    - Assisted in the development and maintenance of quick commerce web applications using **Node.js** for backend services and **React.js** for front-end interfaces, ensuring responsive and interactive user experiences.
    - Contributed to database design and managed data integration using **MongoDB** and **MySQL**, optimizing data retrieval times by 15%.
    - Collaborated with senior developers to build RESTful APIs and integrated third-party services, enhancing the application's functionality and user engagement.

PROJECTS :

1. **GainFund Pay (Payment Solution SDK) :**
   The GainFund Pay project is a versatile Payment Solution SDK developed to facilitate seamless payment processing across multiple platforms. I developed the SDK for javascript , this SDK provides a secure, modular architecture that integrates with various payment gateways, enabling businesses to easily create, manage, and track transactions.

2. **Log Analyzer :**
   I have created the document and architecture of a log analyzer system which can extract log from various docker containers and detect any anomaly in the system using **Random Forest Model** and can give alerts.

3. **Expense Tracker Application :**
   I have managed and developed the backend of the application which can user SMS data like credit and debit card message and extract key information like amount , merchant to give a detail report on the expenses

4. **Valet Parking Solution :**
   I have worked with a US Client on a valet parking system using Node Js, React js, MySql , deployed in Digital Ocean Kubernetes Cluster

ACHIEVEMENTS :

- Developed a patent for a **piezoelectric generator**, adding to the company's intellectual property portfolio and enhancing its technological offerings.

LANGUAGES :

English (Communicable,Read,Write) , Bengali (Fluent,Read,Write) , Hindi (Less communicable,Read)