Krishnendu Saha

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EDUCATION

JIS College of Engineering   **Kolkata, India**
Master of Computer Applications (MCA)   *Graduation Date: Jul 2025*

Brainware University   **Kolkata, India**
Bachelor of Computer Applications (BCA)   *Graduation Date: Jul 2021*

WORK EXPERIENCE

Chanak Analytics   **Kolkata, India**
Technical Project Manager   *Jan 2023 - Present*

- Led diverse teams to deliver backend systems, enterprise solutions, and automation projects from planning to deployment.
- Translated business needs into technical roadmaps and oversaw architecture for scalable systems (Python, Node.js).
- Managed Agile workflows, Scrum planning, and team coordination across distributed environments.
- Balanced client communication with hands-on oversight of code quality, risk, and delivery timelines.

Technical Team Lead   *Apr 2021 - Jan 2023*

- Led distributed teams in building and scaling multiple web platforms and internal systems.
- Developed, deployed, and maintained APIs and backend services with robust data handling capabilities.
- Worked directly with stakeholders to design system architecture and streamline data workflows.
- Oversaw secure, scalable deployments with hosting and version control.

Full Stack Developer   *Nov 2020 - Apr 2021*

- Built and deployed full-stack applications using Node.js, Django, and Web3 technologies.
- Created smart contract solutions and integrated blockchain into live platforms.
- Delivered internal automation and analytics tools using Python and JS.

Technology Expert   *Jan 2020 - Nov 2020*

- Designed backend structures and optimized performance for multiple microservices.
- Maintained and scaled databases and internal tools.

Technology Intern   *Nov 2019 - Jan 2020*

- Developed frontend-backend integrations using AngularJS, Node.js, and MySQL.

PROJECT EXPERIENCE

Chanak Analytics   **Kolkata, India**
Backend & Automation Systems Specialist

- **Email Automation Tool (Node.js):** Built a marketing-focused email automation system with custom scheduling, tracking, and campaign control using Node.js for reliable bulk messaging.
- **Shipment Management & Tracking Software:** Designed a full logistics backend to monitor real-time shipment data, optimize routes, and manage delays via API-integrated control systems.
- **Automation Tools in JS + Python:** Developed modular data automation scripts to crawl, filter, and process large-scale web data, enabling scalable information pipelines.
- **Marketing Panel Automation Tool:** Built a centralized semi-automated platform to manage marketing plans, campaign scheduling, and performance tracking using Python and JavaScript.
- **CRM Platforms (WordPress + PHP + JS):** Delivered dynamic CRM dashboards and workflows using WordPress and PHP, enhanced with JS for core theme and admin panel efficiency.
- **Discord/Telegram Bots + Extensions:** Created moderation bots and custom Chrome extensions using JS to automate interactions in online communities.

Web & Frontend Engineering

- **E-learning Platform (AngularJS):** Built a high-performance AngularJS frontend for video-based learning with responsive design and adaptive video streaming features.

- **MERN + IPFS + Web3 Portal:** Created a Web2.0 platform using the MERN stack with IPFS and Web3 integration to enable decentralized interaction from a modern frontend.
- **Custom WordPress E-commerce Sites:** Built customizable WooCommerce-based stores with product upload automation, SEO, and digital marketing functionality.

Blockchain & Web3 Development

- **Smart Contract Deployment Tool:** Designed a no-code tool to deploy Ethereum smart contracts to testnet and mainnet with real-time status tracking and verification.
- **NFT Artwork Pipeline with IPFS:** Engineered a Node.js pipeline for automated NFT artwork processing, IPFS hosting, and dependency management.
- **Web3 NFT Minting Automation:** Developed automated minting systems using Python and JavaScript to create NFTs and interact with Web3 blockchains at scale.

AI, ML & Data Intelligence Projects

- **Genetic Data Scraper & Sequencer:** Built a Python-Selenium tool to extract and organize genetic research data, enabling preprocessing for bioinformatics analysis and large-scale research.
- **Financial Market Forecasting Tool:** Created a forecasting engine using machine learning models, sentiment analysis, and neural networks to detect trends from large-scale market datasets.

SKILLS & INTERESTS

Skills: Backend Development (Node.js, Python, Django, FastAPI); API Design & Integration (RESTful, Webhooks, Automation); Data Handling & Management (MySQL, MongoDB, etc.); Web & Microservice Architecture; AI Integration & Automation (Prompt Engineering, ML Ops); Blockchain Deployment (Solidity, Smart Contracts, Truffle.js); Web Scraping & Data Sequencing (Selenium, Selenium-ware, Genetic Datasets)

Interests: AI-integrated solutions, Automation, Blockchain, Distributed Systems, Data-driven Platforms