

Amritendu Bhattacharjee

Senior Software Engineer

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Profile Summary

Dynamic and results oriented MERN Stack Developer with over 5+ years of experience designing, developing, and implementing web applications and software solutions. Adept at utilizing the latest technologies to deliver efficient, scalable, and user-friendly applications. Proven ability to work collaboratively in fast-paced environments, consistently meeting project deadlines and exceeding client expectations and seeking to leverage extensive expertise to drive innovation and success in a challenging development role.

Employment History

Senior Software Engineer at Optym, Bengaluru, April 2022 – present

- Spearheaded react application refactoring resulting in reduction of FCP from 6.7sec to 2.8sec.
- Developed a reusable components library using Storybook, facilitating consistency and collaboration across multiple projects.
- Designed and developed features for tracking and presenting analytics data.
- Collaborated closely with cross-functional teams including UI/UX designers, backend developers, and project managers to ensure seamless integration of frontend and backend components.
- Mentored junior developers on React lifecycle methods and effective use of state management.
- Conducted code reviews and provided constructive feedback to peers and junior developers.

Software Engineer at RazrLab, Bengaluru, May 2020 – April 2022

- Developed a B2B platform offering live tracking and analytics, catering to diverse client needs and ensuring seamless user experiences.
- Architected and implemented a Platform as a Service (PaaS) product, consolidating services for 15 B2B clients onto a single generator stack, resulting in significant cost savings and streamlined operations.
- Worked on tracking systems for the Dubai Police
- Implemented end-to-end encryption over socket connection, ensuring secure communication channels and protecting sensitive data from unauthorized access.
- Integrated broker agents like RabbitMQ to facilitate asynchronous communication and improve system scalability and reliability.
- Designed and developed Express API servers with caching mechanisms and microservices architecture, optimizing performance and enhancing scalability for high-traffic applications.

Full stack Developer and SME (InfoSec) at CBNITS (NatITSolved Pvt Ltd), Kolkata, Nov 2018 – April 2020

- Garnered extensive experience in MERN stack development, leveraging its components to build dynamic and scalable applications.
- Proficiently handled PKI, cryptography, file systems, and encryption/decryption, ensuring robust security measures in software solutions.
- Successfully implemented storage-agnostic information rights management solutions, ensuring data security and compliance across diverse storage platforms.
- Expertly managed multi-tenancy and internationalization aspects, catering to diverse user bases and global scalability requirements.
- Engineered cross-platform clients for desktops, browsers, mobile devices, add-ins, and plugins, ensuring seamless user experiences across diverse environments and devices.
- Demonstrated proficiency in managing international client relationships, fostering trust and collaboration to drive business growth and establish long-term partnerships.

Projects

Gate optimization solution for airports – GateAI

Airport management system for ground operations. Which was successful at handling representation and processing of approx. 10,000 data points at an interval of 5 minutes.

Techstack: NextJS, NestJS, GraphQL, MobX, MaterialUI, DynamoDB, AuroraRDS, Module Federation (Micro frontend), Bryntum Gantt, AWS Glue (ETL), Cypress, Docker, Git workflow.

LoadOps TMS and Route optimizer, solution for trucking industry

An end-to-end TMS solution to manage assignments, drivers, loads, trips and contracts and provide optimized results based on constraints set by user.

Techstack: ReactJS, NodeJS, ReactQuery, MaterialUI, React-hook-forms, Tailwind CSS, Axios, Redis, MobX, Distributed System, PostgreSQL, React Testing Lib, Cypress, Docker, Azure pipelines, WebSocket, AES Encryption.

Razr PaaS application for live tracking and analytics

An application leveraging IoT sensors to enable real-time visualization, KPI derivation, and efficient fleet management, showcasing expertise in IoT integration and data-driven insights.

Techstack: ReactJS, ExpressJS, NodeJS, MongoDB, RabbitMQ, Redux, Thunk, React Tools, Saga, Jest, React Testing Lib, WebSocket, PKI, end to end encryption, Docker.

I2Chain, a storage agnostic platform for sharing files within a secure environment – Webapp, Desktop App, Outlook and Gmail add-ins.

Techstack: ReactJS, NodeJS, ElectronJS, MaterialUI, MongoDB, AWS KMS, Cognito, Outlook Addin SDK, Gmail Addon SDK, Jest, EC2, ExpressJS, PKI system, RBAC, Multi-tenancy

EdTech App – Knnova Academy

Techstack: React Native, ExpressJS, NodeJS, Redux, MySQL, React Testing Lib.

Education

MS in Cyber Security at University of Southampton, England, UK
2015-2016

Bachelor of Computer Application at West Bengal University of Technology (WBUT), Kolkata, IN
2011-2014

Recognition

- Won citizen bank challenge hackathon for a client.
- Best team of the quarter (CBNITS)
- Star performer (CBNITS)
- Awarded midyear increment and ESOPS for performance.

Technical Skills

Programming Languages:

JavaScript, Typescript, Python

Frontend: ReactJS, React Native, ElectronJS, NextJS, MaterialUI, Tailwind, ShadCn, Less, Sass, MobX, Redux, Micro frontend, Webpack, Rollup, Vite, Bootstrap, Bulma, Ant, Design Principles, Component Library

Backend: NodeJS, ExpressJS, NestJS, Redis, RabbitMQ, GraphQL, Microservices, ETL Servers, Cognito, AWS KMS, Lambda Serverless, AWS Glue, JSON, XML, API Gateway, SDK design, Distributed Systems.

Database: MongoDB, DynamoDB, PostgreSQL, SQLite, AuroraRDS

Version Control: Git, GitHub, GitLab

Hosting: AWS, Amplify, Firebase, Heroku

Tools & Project Management:

RestAPIs, Postman, yarn, npm, pnpm, JIRA, ClickUP, Azure Boards, Datadog, Cloudwatch, Confluence, Notion, Git Workflow and Actions, Jenkins

Certifications

Hacker Rank React

Hacker Rank JavaScript