Jyotirmoy Barman

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github.com/jewel998

Summary

Full Stack Engineer with 5+ years of experience building high-performance, scalable web and backend systems. Known for driving clean architecture, system reliability, and performance. Proven leader in both **startup and enterprise environments**, with deep expertise in JavaScript, TypeScript, Node.js, React, and cloud-native tools like AWS, GCP and Docker.

Technologies

Languages: JavaScript, TypeScript, Java, SQL, Bash, PHP

Backend Technologies: Node.js, Express.js, Fastify, NestJs, SQL, NoSQL, GraphQL

Frontend Technologies: HTML, CSS, SCSS, Tailwind, React.js, Angular, Ionic, Capacitorjs, React Native, Next.js, Vite

Quality and Documentation: Swagger, Docusaurus, Commitlint, ESLint, Prettier, Changelog, Husky

Experience

Senior Software Engineer, Pocketpills – Gurugram, IN   Feb 2025 – Present

- **Led the architecture and development** of a multi-tenant EMR platform using **NestJS**, **React.js**, **RabbitMQ**, and **TanStack**, enabling doctors to generate AI-assisted prescriptions with role-based access control and real-time monitoring via **SessionStack**, **Mixpanel** and **Sentry**.
- **Delivered a scalable, production-ready system from scratch** in under 4 months, reducing prescription and note-writing time by **40–50%**, while enforcing code quality through **ESLint**, **Prettier**, **Commitlint**, and **changelog** practices.
- **Managed and mentored a team of 3 developers**, driving clean architecture, fast release cycles, and collaborative workflows across a microservices setup with high maintainability and system observability.

Co Founder & CTO, DailyDumbbell – Raipur, IN   May 2024 – Jan 2025

- **Built and launched DailyDumbbell's full-stack fitness platform** (web, dashboard, mobile app) using React.js, Angular, NestJS, Ionic, MongoDB, and AWS/GCP, enabling daily gym subscriptions, user engagement tracking, and **scalable B2B2C operations**.
- **Designed a robust multi-tenant cloud architecture** with **deep linking, product versioning, role-based access, and automation**, supporting gym-level admin tools, CRM workflows, and seamless cloud migration.
- **Integrated payments (Cashfree, PhonePe), marketing automation, and SEO-optimized Markdown content workflows**, improving operational efficiency and content delivery while leading the tech roadmap as a solo technical founder.

Senior Member of Technical Staff, now.gg – Gurugram, IN   Nov 2020 – April 2024

- **Reduced infrastructure costs by 60%** through efficient AWS resource management, improving resource availability and ensuring robust security protocols for end-users
- **Developed WebRTC-based solutions**, connecting backend resources to client devices and creating reusable widgets, enhancing user engagement and **reducing latency by 30%**.
- **Designed and deployed microservices**, streamlining inter-team dependencies and increasing platform scalability, resulting in a **40% improvement** in cross-team collaboration and faster feature delivery.

Member of Technical Staff, BlueStacks – Gurugram, IN   Jul 2020 – Nov 2020

- **Reduced First Contentful Paint (FCP) time by 30%**, improving load times and enhancing overall user experience, leading to a **15% increase in user retention**.
- **Enhanced in-app purchase systems**, enabling seamless payment functionality and optimizing the monetization strategy, resulting in a **25% increase in revenue**.
- Integrated Agora voice chat functionality, improving real-time communication and user interactions, **boosting engagement by 20%**.

Education

Motilal Nehru National Institute of Technology, B.Tech in Computer Science &
Engineering

Aug 2016 – June 2020

Prayagraj, Uttar Pradesh

Projects

Comparison of Time-Series Forecasting Models

- **Compared time-series forecasting models including AR, ARMA, ARIMA, ARMAX, SVR, KRR, and SMOReg**,
  evaluating performance on real datasets **using RMSE and MAE** as key metrics.
- Tools Used: Python, AI/ML

Textbook Lending Bank

- **Developed and managed a textbook lending system** for college students, streamlining inventory tracking, lending,
  and returns to promote resource sharing and reduce academic costs.
- Implemented role-based access for admins and borrowers with automated lending limits, reminders, and
  database-backed book availability, improving operational efficiency and accessibility.
- Tools Used: HTML, CSS, PHP

Lyrics Synchronized Music Player   github

- Built a web-based music playlist application with **real-time lyrics synchronization**, enabling a seamless audio
  experience using JavaScript, HTML, and CSS.
- Designed an intuitive interface with support for timestamped lyrics parsing, playback control, and **dynamic
  highlighting**, enhancing user engagement and usability.
- Tools Used: HTML, CSS, Reactjs