Koushik Bajpayee

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Technologies

- **Languages:** JavaScript (ES6+), PHP, Python, C
- **Frontend:** React.js, Redux Toolkit, React Router, Tailwind, Bootstrap, HTML5, CSS3
- **Backend:** Node.js, Express.js, Laravel, REST APIs, JWT Auth
- **Databases:** MongoDB (Mongoose), SQL (MySQL, PostgreSQL)
- **Cloud / DevOps:** AWS (EC2, S3), PM2, Nginx, Linux (Ubuntu)
- **Tools:** Git, GitHub, VS Code, Postman, MongoDB Compass, phpMyAdmin

Experience

Software Developer *Hyderabad Feb 2025 – Present*
Arkin Software Technologies

- Working on full-stack web applications using React, Node.js, Express, and MongoDB with focus on scalable API design.
- Implementing authentication, authorization, and secure backend services for production-ready applications.
- Collaborating with cross-functional teams to develop new features and improve system performance.

Software Developer Intern *Kolkata July 2024 – Jan 2025*
Reddensoft Infotech

- Built a multi-role permission system (Admin/Author/Student) in Laravel, improving internal workflow efficiency by **30%**.
- Developed secure modules for user management, book approvals, and content handling using REST APIs and MySQL.
- Implemented middleware-based route protection, server-side validation, and hashed authentication to enhance application security.
- Optimized database queries and admin panel performance, reducing average response time by **20%**.
- Collaborated with backend and frontend teams to deliver production-ready features under tight deadlines.

Projects

DevTinder — Developer Social Networking Platform 🌐 Live 🔗 Backend 🔗 Frontend

- Built a **microservice-based developer social networking platform** using the MERN stack, deployed on AWS with custom domain and HTTPS.
- Designed and implemented **secure authentication and authorization** with JWT, HTTP-only cookies, protected routes, and role-based access control.
- Integrated **Razorpay payment gateway** to support subscription-based premium features and monetization.
- Developed a **real-time chat system** using WebSockets for instant messaging, presence tracking, and seamless user interaction.
- Improved backend performance by **18%** through MongoDB indexing, aggregation pipelines, and optimized API query architecture.

Doctor Appointment Booking App — MERN 🔗 *Prescripto*

- Implemented role-based modules (User/Doctor/Admin) with secure JWT auth and protected routes.
- Built real-time slot locking achieving **100% double-booking prevention**.
- Enhanced doctor discoverability by **60%** using filters for specialty, experience, fees, and availability.

Food Ordering App — React + Redux + Jest 🔗 *FoodApp*

- Boosted initial load speed by **12%** using lazy loading, Shimmer UI, and optimized API fetch logic.
- Reduced re-renders by **35%** through custom hooks, memoization, and reusable component patterns.
- Achieved **85%+ test coverage** for key flows (Header, Search, Cart) using Jest + RTL.

Certifications

- *Meta React Basics* • *Meta Advanced React* • *IBM Node.js & Express* • *IBM Node.js & MongoDB*

Education

MAKAUT *B.Tech in Electronics & Communication – CGPA: 7.45* *Aug 2011 – May 2015*

- **Relevant Coursework:** SQL (Codebasics), Data Science (CampusX), PowerBI