

Balmukund Jha

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EXPERIENCE

Web Developer Intern

June 2026 – Present

The Dark Store India Pvt. Ltd.

Remote

- Integrated third-party APIs and services to support core business and operational workflows, handling request/response logic and error handling.
- Built and maintained backend logic for e-commerce workflows, working with data layers to support dynamic storefront functionality.
- Collaborated with stakeholders to translate business requirements into scalable, maintainable web solutions.
- Optimized application performance through efficient data handling and reduced load times across key user flows.

PROJECTS

CuraNet – Healthcare Records & Consent Management System

GitHub | Live

Node.js, Express.js, TypeScript, React.js, PostgreSQL, Prisma, JWT

- Built an EHR platform supporting 12 core workflows, 25+ REST endpoints, RBAC, and PostgreSQL-backed patient records with a 15+ table relational schema via Prisma ORM.
- Implemented consent-based access control allowing patients to grant, revoke, and time-limit provider access, with audit logging for all record access events.
- Developed a Universal Health ID system enabling seamless portability of medical records across multiple healthcare providers.

NetShield - Network Control and Website Blocking Tool

GitHub

Node.js, Express.js, JavaScript, DNS, HTTP/HTTPS Proxy, CLI

- Developed a system-level network filtering tool to block distracting websites using domain- and keyword-based rules across HTTP/HTTPS traffic.
- Built a local proxy server and DNS filter in Node.js to inspect requests, enforce blocking rules, and return blocked responses in real time.
- Implemented a REST API and CLI to manage ban/unban workflows, with persistent rule storage and Windows proxy automation.

Microservices Uber Backend

GitHub

Node.js, Express.js, MongoDB, Microservices, JWT

- Built a scalable ride-hailing backend using Node.js, Express.js, and MongoDB with a microservices architecture.
- Implemented secure JWT-based authentication, trip booking workflows, and driver-passenger matching logic with real-time inter-service communication via message queues.
- Applied database indexing and query optimization, reducing API response time by 35%.

EDUCATION

Vellore Institute of Technology

Vellore, TN

Master of Computer Applications

July 2024 – April 2026

Munger University

Munger, BR

Bachelor of Computer Applications

May 2020 – February 2024

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, Java, HTML, CSS

Frontend: React.js, Next.js, Tailwind CSS

Backend: Node.js, Express.js, REST APIs, Authentication (JWT, RBAC), Input Validation (Zod)

Databases & ORM: PostgreSQL, MySQL, MongoDB, Prisma ORM

Caching & Messaging: Redis, RabbitMQ

Architecture & Concepts: Microservices Architecture, API Design, Database Design, DB Indexing, Query Optimization, Distributed Systems, OOP

Systems & Networking: HTTP/HTTPS, DNS Fundamentals, Proxy-based Request Filtering, CLI Tools

DevOps & Deployment: Docker, Linux

Tools & Platforms: Git, GitHub