

TAMAL SEN

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PROFESSIONAL SUMMARY

Full-stack developer with 1.5+ years of experience building secure, scalable web applications. Skilled in Node.js, Express, React, MongoDB, PostgreSQL, REST API design, and JWT/RBAC authentication. Built a complex IFRS 16 accounting engine from scratch for a commercial SaaS product, covering multi-currency logic and automated reporting.

TECHNICAL SKILLS

Backend: Node.js, Express.js, REST API design, MongoDB, PostgreSQL, MySQL, schema design, indexing

Frontend: React, Redux, Zustand, Tailwind CSS, Chakra UI, JavaScript (ES6+), HTML5, CSS3

Auth & Security: JWT, refresh tokens, RBAC, bcrypt, Helmet, rate limiting, Zod validation

Tools: Git, GitHub, Docker, Redis, Postman, Swagger, VS Code

Other: PHP, Laravel, MVC architecture, WordPress

EXPERIENCE

Software Developer — Bluehorse Software Solutions Pvt. Ltd., Midnapore Feb 2025 — Present

Node.js and React developer, currently building the company's IFRS 16 lease accounting product; previously delivered client work in PHP/Laravel and WordPress.

- Built Auditflow's IFRS 16 lease accounting engine from scratch — the compliance core of the company's SaaS product — covering lease liability amortization, ROU asset depreciation, IAS 21 multi-currency translation, and an automated journal entry module spanning 14 posting types across dual reporting bases.
- Built the React/Redux frontend for disclosure reporting and COA configuration — permission-scoped data fetching, period-based reconciliation tables, and role-gated lease CRUD.
- Optimized bulk journal entry generation from $O(N^2)$ to $O(N)$ FX lookups by translating each schedule once and index-matching rows, and eliminated per-entry database reads via preloaded caches.
- Developed Node.js/Express REST APIs powering a React admin panel (Zustand, Tailwind CSS) managing content across 15+ client websites.
- Contributed to a microservices-based e-commerce backend, focusing on service separation and API contract design.
- Migrated a legacy Core PHP application to Laravel, restructuring it to MVC; maintained production PHP/Laravel applications including a vendor portal and a travel booking platform.
- Handled WordPress delivery and maintenance for client sites.

PROJECTS

Employee Management REST API — Node.js, Express.js, PostgreSQL, JWT, Zod

- Production-ready REST API with JWT access/refresh authentication, bcrypt hashing, role-based access control, and an audit logging system attributing every create, update, and delete to a user.
- Added Redis caching with invalidation, centralized error handling via a custom AppError class, Zod input validation, and API versioning under /api/v1.

GitHub: github.com/sTamal2001/employee-api

School Management System — Laravel, MySQL

- Backend system with authentication, RBAC, and CRUD modules for managing students, teachers, and academic records.

EDUCATION

MCA — Dr. B. C. Roy Engineering College, Durgapur

2024

BCA — Bankura University

2021