

BISWAJIT DEY

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SUMMARY

Full-Stack Software Engineer with production experience building systems for West Bengal government departments and 13+ private businesses. Comfortable owning the full stack — from database design to cloud deployment — and focused on writing software that performs under real-world load.

EXPERIENCE

Software Engineer

NexIntel Synergy Pvt. Ltd.

January 2025 – Present

Salt Lake, Kolkata, India

- Built a Mass Gathering and Hygiene Management System for West Bengal government, enabling real-time coordination of 500+ field staff across public events with severity-based incident classification, automated escalation workflows, and a live monitoring dashboard for senior authorities.
- Implemented Redis caching and BullMQ task queues for high-frequency API operations, reducing average response times by 35% and cutting database load by 40% under peak concurrent multi-department traffic.
- Designed and delivered a staff management module for 200+ registered department users, covering attendance tracking, duty assignment, shift scheduling, and granular role-based access control.
- Architected optimised relational schemas and query execution plans for large-scale government datasets, maintaining consistent sub-200ms query performance under concurrent usage across departments.
- Delivered a sanitation logistics platform rolled out across multiple cities, enabling municipal workers to coordinate waste collection routes and report hygiene status with real-time field updates.

Tech: TypeScript, Next.js, Express.js, PostgreSQL, Redis, BullMQ, Tailwind CSS, JWT, OAuth2, RESTful APIs

Freelance Full-Stack Engineer

Independent

2024 – Early 2025

Kolkata, India

- Architected and delivered Solar CRM and ERP (pverp.com) from scratch, deployed to active production use at 1 large solar enterprise and 12+ SMBs — serving 13+ businesses and 100+ daily active users across West Bengal, managing the complete pipeline from lead acquisition to project completion.
- Built 14+ tightly integrated modules covering sales pipeline, project management, retail transactions, insurance processing, accounts and billing, HR and payroll, a company-wide issue tracking system, and real-time internal chat — all under a single unified platform.
- Developed a React Native mobile app for site engineers to manage installations, submit checklists, upload site photos, and sync progress in real time with the central platform.
- Implemented WebSocket-based real-time messaging and a BullMQ async email queue processing 1,000+ emails/week with zero delivery failures across all client instances.
- Configured Redis for multi-layer caching — session management, query result caching, and rate limiting — achieving 60%+ cache hit rates and cutting average database read load significantly across all tenants.
- Deployed on AWS EC2 with auto-managed PostgreSQL database, AWS S3 for document and media storage, fully containerised with Docker Compose, maintaining 99.5%+ uptime in production.

Tech: TypeScript, Next.js, Node.js, PostgreSQL, Prisma, Redis, BullMQ, WebSockets, Docker, AWS EC2, S3, React Native

EDUCATION

Bachelor of Computer Application (BCA)

Techno India University

2022 – 2025

Kolkata, India

- CGPA: 8.83 / 10
- Relevant Coursework: Full-Stack Development, Mobile Application Development, Java Programming, Database Management Systems

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Java, SQL

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

Backend: Node.js, Express.js, GraphQL, RESTful APIs, WebSockets

Databases: PostgreSQL, MongoDB, Redis, Prisma ORM

DevOps & Cloud: Docker, AWS EC2, AWS S3, AWS RDS, GitHub Actions

Tools & Libraries: BullMQ, JWT, OAuth2, TensorFlow, Qdrant, Git