

Dipta Barua

Mobile: +81 070-9094-8916 github.com/dip11

Email: diptab11@gmail.com Tokyo, Japan

linkedin.com/in/diptobarua

SUMMARY

Senior full-stack engineer with 8+ years building scalable, production-grade web platforms across Japan's tech industry. Proven ability to architect end-to-end systems with React/Next.js and Node.js/NestJS, lead engineering teams, and ship features that measurably improve performance and developer velocity. Track record of owning systems from architecture through deployment in SaaS, warehouse automation, and AI-augmented developer tooling.

EXPERIENCE

- **UPWARD, Inc.** Tokyo, Japan *Senior Software Engineer*
Oct 2024 - Present
 - **Reusable Component Library:** Designed a reusable UI component library that boosted development speed by 50% and reduced downstream feature development cost significantly, now adopted as the standard across all company products.
 - **AI-Augmented Engineering Workflow:** Integrated Claude AI into the team's engineering workflow with custom commands for automated PR creation and code review, accelerating review cycles and improving PR quality across the team.
 - **Cross-Functional Feature Delivery:** Lead full-stack feature delivery from API design through frontend integration, partnering with PM and design teams to ship features end-to-end.
- **Pal Co. Ltd** Tokyo, Japan *Senior Software Engineer, Team Lead*
Jul 2021 - Sep 2024
 - **Warehouse Management System:** Led end-to-end development of a WMS integrating AGV robots, dynamic shelving, and bin-level tracking to automate inventory retrieval and delivery.
 - **Architecture & Team Leadership:** Defined system architecture and tech stack (React.js + NestJS + PostgreSQL), establishing engineering standards adopted by a team of 5 engineers.
 - **Stock Allocation Engine:** Designed a real-time stock allocation engine processing continuous shipping events, reducing manual allocation effort by 40%.
 - **Automated Data Pipelines:** Owned ERD/DFD design and built automated ingestion pipelines for inventory and shipping data, eliminating 4 hours/week of manual data entry.
- **Human Resocia Ltd** Tokyo, Japan *Full-Stack Software Engineer*
Sep 2019 - Jun 2021
 - **AR/VR Order Management System:** Contributed to an AR/VR order management platform using Angular and Python (Flask), delivering immersive product visualization for enterprise clients.
 - **Real-Time Video Streaming:** Built a React Native mobile app with WebRTC video streaming, designing signaling services and RTMP server infrastructure to support real-time multi-party calls.
- **Intelligent Business Solutions Ltd** Dhaka, Bangladesh *Software Engineer*
Jan 2018 - Aug 2019
 - **Biometric Device Management System:** Led development of a biometric device management system in C#, Laravel, and Angular 7, deployed to 4 enterprise clients to streamline HR/attendance workflows.
 - **Quality & Delivery:** Designed robust test scenarios and delivered the system on time and within budget, ensuring system efficiency and reliability.

EDUCATION

- **Independent University, Bangladesh** Dhaka, Bangladesh *Bachelor of Science in Computer Science; CGPA: 3.78/4.00*
2014 - 2017

TECHNICAL SKILLS

- **Languages:** TypeScript, JavaScript, Python, C#, SQL
- **Frontend:** React.js, Next.js, Vue.js, AngularJS, React Native, Atomic Design, FSD, Responsive UI
- **Backend:** Node.js, NestJS, Express.js, FastAPI, Flask, Laravel, REST, GraphQL, TypeORM
- **AI / ML:** LangChain, LangGraph, RAG, CrewAI, AI Agents, Claude Code
- **Cloud DevOps:** AWS, Azure, GCP, Docker, Kubernetes, CI/CD (GitHub Actions, Bitbucket Pipelines)
- **Databases:** PostgreSQL, MySQL, MongoDB, Redis, AWS RDS, Schema Design, Query Optimization
- **Tools Practices:** Git, Jira, Notion, Confluence, Figma, Agile/Scrum, ERD/DFD Design, JWT, OAuth2

CERTIFICATIONS

- Microsoft Certified: **Azure Fundamentals** (2025)
- Google: **Project Initiation: Starting a Successful Project** (2025)
- **Docker Kubernetes** – Udemy (2023)
- Google: **Foundations of Project Management** (2023)
- **Blockchain Specialization** – University at Buffalo / Coursera (2022)

LANGUAGES

- **English:** Full Professional Proficiency **Bengali:** Native **Japanese:** Daily Conversation