

SUSNATA GOSWAMI

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SUMMARY

Full-Stack Software Engineer with **3.5+ years of full-time production experience** delivering systems across healthcare informatics, pharmaceutical manufacturing, and ad-tech. Core stack: **Node.js, Express.js, React, JavaScript/TypeScript, MongoDB, and Django REST Framework**. Track record of shipping end-to-end features with measurable outcomes — 37.54% reduction in patient mortality, 20% ad revenue uplift. Works **AI-native**: decomposes features into scoped tasks for AI coding agents (**Claude Code**), drafting tests and debugging with them, and reviews every change against tests and team patterns. India-based (Kolkata); open to **SDE-2, Software Engineer II, Member of Technical Staff (MTS)**, or equivalent roles.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, C++, C
Frontend: React.js, Next.js, NuxtJS, Vue.js, MobX, Redux, WebSocket, HTML5, CSS3
Backend: Node.js, Express.js, FastAPI, REST APIs, Django REST Framework, Celery, WebSocket, SMART on FHIR
Databases & Infra: MongoDB, PostgreSQL (pgvector), Redis | AWS (S3, EC2, SES), Docker, Git, Postman
AI: Retrieval-Augmented Generation (RAG), LLM integration, Claude Code

EXPERIENCE

Finarb

Nov 2023 – Present

Software Development Engineer

Kolkata, India · Full-time

- **PPS Tracker** – Engineered a full-stack production planning and scheduling platform for pharmaceutical manufacturing using **Django REST Framework + React/TypeScript**. Designed REST APIs for multi-room job scheduling, implemented real-time status updates via **WebSocket**, and offloaded heavy calculations to async workers with **Celery/Redis**, eliminating scheduling bottlenecks across 10+ production lines.
- **Healthcare RAG Assistant** (ongoing) – Building the chat interface, streaming APIs, and retrieval-augmented backend of a clinical knowledge assistant that drafts answers from FAQ and ticket knowledge bases for human review, with a review console capturing approval and feedback events. Implementing with **FastAPI, Vue.js, Docker, and PostgreSQL (pgvector)** over de-identified patient data.
- **Bid Analysis** – Built a full-stack **bid lifecycle management platform** for government pharmaceutical contracts (MAS Direct, MAS Indirect, NC bids) using **Django REST Framework + React**. Delivered structured bid intake forms, multi-stage approval workflows, status tracking, and audit trail — providing end-to-end pipeline visibility where none existed before.
- **Islet** – Led full-stack development of a **PHI visualization system** for real-time sepsis patient monitoring. Engineered legacy browser compatibility layer and scaled WebSocket-based live updates to **1,000+ concurrent clients**. Clinical deployment achieved a **37.54% reduction in in-hospital mortality** and a **34.13% decrease in hospital stay duration**.
- **EDS** – Developed a cross-organizational **Power BI report distribution platform** (NuxtJS, Node.js, Express.js) eliminating manual report-sharing workflows for **254 users** across **10+ departments**.
- **DataXpert** – Built an in-house data analysis tool enabling non-technical users to upload flatfiles, connect databases, and query data interactively. Developed with **ReactJS, MobX, Express.js, and TypeScript**; reduced analyst dependency on engineering for ad-hoc data requests.

AdPushup

Jan 2023 – Oct 2023

Associate Full-Stack Developer

Remote · Full-time

- Engineered the **Floor-Price Engine POC** — automated bid-floor optimization that delivered a **20% revenue uplift** on tested sites, informing the product roadmap for real-time bidding strategy.
- Contributed to the **Instream Video Player** codebase — programmatic video ad rendering via **header bidding** with **Google Ad Manager (GAM)** integration, improving ad fill rates across publisher inventory.

PROJECTS

PAYVER | [GitHub](#) | *Next.js, TypeScript, Express.js, MongoDB*

- Bill-splitting app with **UPI Deep Link integration** for direct in-app payments and a **smart debt netting algorithm** that automatically offsets mutual debts, minimizing total transaction count across groups.
- Built real-time payment confirmation flow — payer triggers push notification; receiver confirms or rejects; state synced instantly across all group members.

COURSEFRY | [Demo](#) | *Next.js, React, Node.js, MongoDB, AWS S3/EC2/SES, Stripe*

- Full-stack e-learning platform with **Stripe payment integration**, role-based dashboards for instructors and students, structured course/lesson management, and student progress tracking.
- Leveraged **AWS S3** for video/asset storage, **SES** for transactional email, and **EC2** for deployment — production-grade infrastructure from a solo build.

EDUCATION

University of Engineering and Management, Kolkata

B.Tech in Computer Science and Engineering | CGPA: 9.45

Kolkata, West Bengal

Jul 2019 – Jun 2023