

ABHISHEK DAS

Software Engineer | Full Stack Systems & Applied AI

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PROFESSIONAL SUMMARY

Software engineer with 4+ years designing, building and operating full stack products. Works across TypeScript/JavaScript, Java, Python and SQL. Built an EdTech platform as a founding engineer; now delivers enterprise workflows at Lowe's with business teams and architects. Takes features from requirements and technical design through testing and production support, including specification-driven development and generative AI services.

PROFESSIONAL EXPERIENCE

Software Engineer

Jul 2025 – Present

Lowe's India | Enterprise Workflow Automation Platform (Camunda)

Bengaluru

- Partnered with **4-5 business teams** to translate procurement, supply chain and Content Platform requirements into **six Camunda workflows**; developed **Spring Boot REST APIs** and delivered a **7+ stage ESS procurement process** with routing, notifications and approvals.
- Led the **React/TypeScript UI revamp** using written specifications and reusable components; introduced **feature flags** to control feature availability and **Camunda Forms** for BPMN user-task data capture.
- Conducted **technical spike analysis** on **Temporal** and a **custom workflow engine** as alternatives to Camunda, assessing whether to adopt another platform or build internally.
- Authored **functional requirements documents (FRDs)** and **architecture decision records (ADRs)** for the AI workflow service; reviewed the architecture with the engineering lead and senior architect and coordinated infrastructure and framework requests through staging and production deployment.
- Built a **chat-based AI workflow service** using Google ADK, LangChain and LangGraph, with **Weaviate RAG** for Q&A and **Redis** sessions. Generated BPMN and assignment logic, supporting approximately **60% of workflow development**, with human completion before deployment.
- Used written specifications to guide **AI-assisted implementation** and contributed to **Playwright end-to-end test setup** to verify changes; built a **Google Cloud Run** file-upload service and supported production releases and issue resolution.

Software Development Engineer II

Jul 2023 – Jun 2025

Dataspace Academy (Satts Cybertech Pvt. Ltd.)

Kolkata

- Built and operated an **EdTech business operations platform and LMS** as a **founding engineer**, serving **approximately 10,000 users (~200 concurrent)** across staff and learner applications.
- Designed **five microservices**, API contracts and MongoDB models; translated FRDs into low-level designs for publishing, enrollment, assessments and payments. Implemented REST/GraphQL APIs, WebSocket subscriptions, JWT authentication and **role-based access control**.
- Owned **Docker deployments and NGINX reverse proxy configuration on VPS infrastructure**, including domain and DNS setup, application networking and server maintenance; migrated hosting from AWS, saving approximately **INR 4 lakh annually**.
- Introduced **GitHub Actions CI/CD** with automated tests, deployments and vulnerability scanning; implemented scheduled database backups and **verified recovery through a restore test**.
- Maintained two additional application websites and the student learning portal; mentored **2 React developers**.

- Integrated **Google Dialogflow with Genesys Cloud** for IVR and conversational customer-service flows.
- Developed Node.js middleware with Winston logging and error classification; built JDBC Excel-to-database pipelines.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, Java, Python, SQL

Full Stack Development: React, Next.js, Node.js, Spring Boot, FastAPI, REST APIs, GraphQL, WebSockets

Data: PostgreSQL, MongoDB, Redis, Weaviate

System Design and Workflows: Microservices, API design, ADRs, FRDs, technical spikes, Camunda, BPMN 2.0

Infrastructure: Docker, NGINX reverse proxy, VPS operations, networking, DNS, Google Cloud Run, AWS fundamentals

Delivery and Quality: GitHub Actions CI/CD, feature flags, Playwright, Jest, vulnerability scanning, backup and recovery

Applied AI: Retrieval-Augmented Generation (RAG), Google ADK, LangChain, LangGraph, OpenAI APIs

SELECTED PROJECTS

Independent products built with business owners; SupplyPoint is in a business pilot.

Livotal – Pathology and Liver Care Platform | Python, FastAPI, React, PostgreSQL, OpenAI livotal.com

- Built a platform for patient bookings, lab-report intake and consultations; delivered **35+ features** from written specifications to Docker/VPS production with GitHub Actions CI/CD and automated S3 backups.
- Designed **asynchronous AI document extraction** with OpenAI structured outputs and Redis/ARQ workers, retaining **human review**; verified deterministic clinical scoring against golden test fixtures.

SupplyPoint – Supply Chain and Fulfillment SaaS | Python, FastAPI, SQLAlchemy, React, PostgreSQL, OpenAI

- Translated spreadsheet-based purchasing and fulfillment requirements into a **business pilot** with purchase orders, inventory reservations, allocation by expiry date, dispatch tracking and tenant-specific access controls.
- Built **AI-assisted goods receipt note (GRN) mapping** with deterministic, versioned runtime extraction; added a workflow studio with approvals and human tasks.

Zookadoo – Booking and Point of Sale | Next.js, Prisma, PostgreSQL, NextAuth, Docker zookadoo.in

- Shipped a booking and point-of-sale product with capacity-limited reservations, memberships, payments, refunds and staff operations; integrated **Web Bluetooth receipt printing**.

EDUCATION

B.Tech, Computer Science and Engineering | Narula Institute of Technology | CGPA 8.18/10

2022

CERTIFICATIONS

- **Agentic AI with LangChain and LangGraph** – IBM (2026) | **Graph Developer – Associate** – Apollo GraphQL (2023)
- **AWS Fundamentals: Building Serverless Applications** – Coursera (2021)

RECOGNITION

- **Lowe's India:** Team Excellence Award (2026); recognized twice at technology town halls for the workflow UI revamp and introduction of BPMN user-task forms.
- **Dataspace Academy:** Best Contributor and Emerging Leader recognition.