

Pritam Das

Software Developer | Backend & Full-Stack Engineering

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Summary

Software Developer with 3+ years of experience architecting high-throughput backend services, distributed systems, and ad-tech automation engines using Node.js, JavaScript, SQL Server, and PostgreSQL. Proven track record in designing asynchronous BullMQ/Redis queue pipelines, eliminating operational bottlenecks, and reducing analytical query response times.

Technical Skills

Languages & Runtimes: JavaScript, Node.js, TypeScript, SQL, Python, C#

Databases & Caching: PostgreSQL, Microsoft SQL Server, MongoDB, Redis, Schema Design, Query Optimization

Backend & Architecture: REST APIs, WebSockets, BullMQ, Background Workers, Microservices, JWT, RBAC

Frontend: React, Next.js, Bootstrap, Tailwind CSS, Apache ECharts, Chart.js

DevOps & Tools: Linux (systemd, Bash), Docker, Ansible, NGINX, AWS EC2, GitHub Actions, Git, Puppeteer.js

AI & Machine Learning: OpenAI API, RAG, ONNX Runtime (Web/Node), Local LLMs/Inference, llama.cpp, PaddleOCR, OpenCV

Advertising APIs: Amazon Ads API, Google Ads API

Experience

Software Developer — Agnik

June 2023 – Present

Kolkata, India

- Engineered an automated Real-Time Bidding (RTB) engine in Node.js for an e-commerce ad platform, boosting campaign optimization efficiency by ~47% via dynamic algorithmic bid adjustments.
- Recalibrated keyword weightings and placement signals in search-ranking pipelines, improving campaign CTR by ~54% across target product categories.
- Built interactive reporting dashboards and SQL aggregation pipelines with Apache ECharts, reducing the turnaround time of complex campaign analytics.
- Optimized slow queries and automated recurring batch jobs across SQL Server and PostgreSQL, reducing processing latency by ~42% across mission-critical transactional workflows.
- Developed automated rank-tracking and competitor analysis pipelines using Node.js and CloakBrowser to ingest, parse, and synthesize external market data.
- Implemented Infrastructure-as-Code (IaC) using Ansible to automate server provisioning, secret distribution, and process monitoring across bare-metal environments, eliminating deployment drift and reducing setup time.
- Refactored the internal community forum architecture, optimizing nested comment queries, reaction counters, and real-time feeds while overhauling the admin dashboard for granular content moderation.
- Owned and maintained an internal operations portal utilized daily across engineering and operations teams; awarded the **Agnik Leadership Award** (Dec 2024).

Selected Projects

Teammates Insurance — Enterprise Insurance Management Portal

Sep 2025 – Present

Node.js, Express, PostgreSQL, Knex.js, Redis, BullMQ

- Architected a scalable Node.js/Express backend featuring modular data-access layers, JWT authentication, and fine-grained Role-Based Access Control (RBAC).
- Integrated PostgreSQL via Knex.js migrations and deployed Redis/BullMQ background workers for asynchronous policy report generation and high-throughput PDF exports.

Inori Studio — inori-studio.vercel.app

Nov 2025 – Dec 2025

Next.js, ONNX Runtime Web, WebGPU, WASM, Tailwind CSS

- Built a client-side background removal and inpainting web application using ONNX Runtime Web, achieving sub-second local inference with zero backend compute overhead.
- Integrated WebGPU compute shaders and a dedicated WASM Web Worker leveraging the LaMa model for low-latency, non-blocking multi-threaded image processing in the browser.
- Implemented client-side model-weight caching via the Cache Storage API to eliminate redundant downloads, packaged in a responsive Tailwind CSS UI.

Comic Translator — [GitHub Repository](#)

Nov 2022 – Mar 2023

Python, OpenCV, PaddleOCR, CLI

- Developed an automated Python CLI pipeline for text extraction, translation, and typesetting in multi-page comics using OpenCV and PaddleOCR.
- Implemented speech-bubble boundary contour detection and dominant-color background inpainting algorithms for clean text erasure and dialogue replacement.

Gram Bahar — grambahar.com

Nov 2023 – Feb 2024

Next.js, React, Node.js, WebP, Tailwind CSS

- Built a direct-to-consumer eCommerce platform connecting 200+ rural jaggery farmers in West Bengal directly with consumers, driving a 20% increase in direct sales.
- Implemented Next.js WebP dynamic image delivery and optimized combo-pack checkout configurations, reducing checkout completion time by 30%.

Education

M.Sc. in Computer Science — Kalyani University (Postgraduate)

2021 – 2023

B.Sc. in Computer Science — Kanchrapara College (Undergraduate)

2017 – 2021

Awards & Additional Information

Agnik Leadership Award (Agnik, Dec 2024) — Recognized for technical ownership, initiative, and engineering impact in ad automation systems.

Languages: English (Professional), Bengali (Native), Hindi (Working Proficiency)