Chinton Dutta

BACKEND & DEVOPS ENGINEER

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SUMMARY

Backend and DevOps engineer building scalable backend systems and AI-driven production platforms. Experienced in Node.js, TypeScript, distributed job orchestration, and Kubernetes-based cloud deployments. Architected workflow engines, multi-tenant SaaS applications, and sandboxed execution environments with durable background processing and real-time data pipelines. Focused on reliability, system design, and production-grade infrastructure optimized for performance under concurrent workloads.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, SQL, Bash
Backend: Node.js, Express.js, tRPC, REST APIs, WebSockets, JWT, Zod, Prisma ORM, Clerk
Databases: PostgreSQL, MongoDB, Redis (Pub/Sub, Streams), Neon Serverless Postgres, Convex
AI: OpenAI APIs, Retrieval-Augmented Generation (RAG), AI Agents, Inngest, E2B Sandboxes
DevOps: Git, GitHub, Docker, Docker Compose, Kubernetes, Helm, AWS (EC2, ECS, ECR, ASGs, Secrets Manager), CI/CD, ArgoCD, Prometheus, Grafana, New Relic, Sentry

PROFESSIONAL EXPERIENCE

Co-Founder (Product & Engineering)   Nov 2025 – Present
FREMN   *Kolkata, West Bengal*
- Architecting backend systems and Kubernetes-based cloud infrastructure for AI-driven SaaS products with production-ready CI/CD pipelines.
- Leading API design, distributed job workflows, and DevOps automation across multi-tenant applications.

Backend Developer Intern   Aug 2025 – Jan 2026
Yolopment IT Solution   *Kolkata, West Bengal*
- Built REST APIs and integrated database-driven features for internal and client-facing modules.
- Resolved production issues and supported deployment and code review workflows across sprint cycles.

PROJECTS

Cortex — AI-Powered Website Builder [Live] [GitHub]
- **Tech Stack:** TypeScript, tRPC, Prisma ORM, Neon Postgres, Inngest, E2B, OpenAI APIs
- Built an agentic AI system converting natural language prompts into deployed multi-file web applications with durable background orchestration.
- Implemented secure sandboxed execution via isolated E2B micro-VMs with JSONB-backed persistence supporting iterative, production-ready builds under concurrent usage.

Solvia — AI-Powered Customer Support Platform [Live]
- **Tech Stack:** TypeScript, Convex, Clerk, OpenAI, RAG, Vapi, AWS Secrets Manager, Sentry
- Engineered a multi-tenant AI support platform with organization-scoped authentication and subscription-based feature gating.
- Designed document ingestion and RAG pipelines enabling contextual AI chat and voice responses with secure credential management and production monitoring.

Synapse — Visual Workflow Automation Platform [Live] [GitHub]
- **Tech Stack:** TypeScript, Node.js, tRPC, Prisma ORM, Inngest, Redis, OpenAI APIs
- Designed a durable workflow engine decoupling long-running AI operations from synchronous request-response cycles with event-driven execution.
- Implemented DAG-based execution with topological sorting and modular executor architecture for scalable, fault-tolerant automation across complex workflows.

EDUCATION

Techno India University   Kolkata, WB
BCA(H) - Bachelor's in Computer Application (Honours)   *Sep 2023 – Aug 2027*