

# Abhiral Saha

Backend Engineer

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## Summary

Backend Engineer specializing in **Node.js/TypeScript**, **distributed systems**, and **cloud-native APIs**. Creator of the **Welder Framework** — an AI-native backend framework for **secure, modular, and scalable development**. Proven record of delivering **1M+ RPS microservices**, cutting latency by **55%**, and driving **observability-first architectures**.

## Experience

### Backend Engineer — JSI Software Solution (Aug 2024 – Mar 2025)

- Architected **microservices platform** (Node.js, PostgreSQL) serving **1M+ requests/day**.
- Reduced latency **38%** with Redis, gRPC, and optimized DB queries.
- Built observability stack (OTel, Prometheus, Grafana) → MTTR ↓ 40%.
- Implemented **Kafka-based workflows & K8s canary deployments**.

### Web Developer Intern — Cetpa Infotech (Noida) (Jun 2023 – Dec 2023)

- Developed **WebSocket gateways** with sharding + backpressure → throughput ↑ 40%.
- Added **circuit breakers, rate-limiting, health checks** for resilience.

### Freelance Backend Engineer — (Remote) (Jan 2023 – Present)

- Built **multi-tenant SaaS backend** (Express, Prisma, PostgreSQL).
- Automated CI/CD via GitHub Actions → AWS ECS.

## Major Projects

### Welder Framework — AI-Powered Backend Framework (Working)

- Built AI-native backend framework with **auto-loaders, plugin sandboxing, AI CLI, and runtime error watcher**.
- Delivered **2x developer velocity, 55% faster debugging, and enterprise security compliance**.

### Event-Driven Billing Service — Kafka, SAGA, Outbox/Inbox

- Designed billing workflows with **exactly-once semantics & compensation logic**.

### High-Throughput Image API — Fastify, AWS S3

- Optimized Node streams → **p95=120ms at 1k RPS**; scaled via **KEDA + K8s HPA**.

## Skills

**Languages:** TypeScript, JavaScript, Python, C++, SQL

**Frameworks:** Fastify, NestJS, Express, GraphQL, Prisma

**Databases/Messaging:** PostgreSQL, Redis, MongoDB, Kafka, RabbitMQ, gRPC

**DevOps/Cloud:** Docker, Kubernetes, Terraform, AWS, GCP, GitHub Actions

**Security:** OAuth2/OIDC, JWT, RBAC, Zero-Trust, WAF

**Testing/Observability:** Jest, k6, Pact, Playwright, OpenTelemetry, Prometheus, Grafana

## Education

### B.Tech, Computer Science & Engineering

Teerthanker Mahaveer University (2020–2024)

Focus: distributed systems, cloud infra, secure architectures.