

Dibakar Sutra Dhar

Senior Software Engineer | Backend & Distributed Systems

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Profile

Senior Software Engineer with 6+ years building distributed backends and data-intensive systems in Rust and TypeScript. Built and operated production systems serving 50k+ users and 30k+ live portfolios, with a focus on event-driven architectures, real-time data pipelines, and high-throughput backend infrastructure.

Skills

Languages: Rust, TypeScript, Python, SQL

Backend: Tokio, Axum, Node.js, Hono, Django, REST, gRPC, Microservices, Distributed Systems

Data & Streaming: PostgreSQL, Redis, Snowflake, Apache Flink, Apache Pulsar, ETL/ELT

Cloud & Infrastructure: AWS, Cloudflare, Docker, Terraform, GitHub Actions, CI/CD, Durable Objects, Workers

Observability: OpenTelemetry, Grafana, Sentry, Datadog, PostHog

Frontend: React, SvelteKit, Next.js

Experience

MC2 Finance (DeFi analytics platform), Senior Software Engineer – Switzerland, Remote Apr 2024 – Mar 2026

- Served as core engineer and top contributor on the company's Cloudflare Workers backend. Designed and built the portfolio ROI engine and a per-portfolio Durable Objects system with embedded SQLite state, enabling real-time recomputation across a six-service monorepo.
- Built the API layer of a DeFi analytics platform with 108 Zod-validated OpenAPI endpoints (Hono on Cloudflare Workers) across public and wallet-authenticated services, plus a shared Drizzle query layer and wallet-signature authentication.
- Designed and built, with the data-platform team, the multi-chain DeFi ETL ingestion data plane across three stack generations: a Rust/Tokio ingestor, an Apache Pulsar and Apache Flink streaming transport, and a serverless Cloudflare Workers rewrite. Maintained a stable signals data contract across all three generations while sustaining roughly 1,000–1,500 actions per second.
- Rebuilt the wallet-ingestion data plane as a serverless system across six Cloudflare Workers and five shared TypeScript packages. Added round-robin failover across six external data providers, ingested EVM and Solana activity through Cloudflare Queues, and persisted signals and realized PnL to PostgreSQL via Hyperdrive.

Dosier (Dolpin, decentralized cloud storage), Software Engineer – United States, Remote Oct 2022 – Oct 2023

- Built the IPFS and Filecoin storage infrastructure and Python/Django backend on AWS for Dolpin, a decentralized encrypted cloud storage product, shipping two Product Hunt launches (236 and 107 upvotes).
- Designed Solidity on-chain and Python/Django off-chain access-control systems with beneficiary-based file-access governance and ERC-4337 account-abstraction wallet onboarding.

QuickDesk (CRM and communication SaaS), Full Stack Developer – Singapore, Remote May 2021 – Jan 2022

- Built CRM APIs and browser-based tools that integrated real-time WhatsApp messaging and voice-call communication workflows.
- Developed a React Chrome extension with supporting backend services, contributing to a 30% improvement in customer conversion.

Signup.cash (Bitcoin Cash wallet and dApp SDK), Software Engineer – Kuala Lumpur, Malaysia July 2020 – May 2021

- Developed a non-custodial Bitcoin Cash wallet and dApp SDK as a three-package monorepo (provider SDK, Preact wallet app, signing web worker), including a popup messaging protocol, budgeted one-hour JWT spend tokens, and SLP/NFT1 transaction support.

Projects

Jemeti May 2026 – Oct 2026

Multi-tenant automobile workshop SaaS (Rust/Axum, PostgreSQL RLS tenancy) with a SvelteKit 5 SSR frontend.

- Took Jemeti from an empty repository to a five-surface production system in under five months as sole architect and developer, owning product, backend, frontend, infrastructure, and deployment end to end.
- Hardened tenant isolation across JWT claims, per-transaction SET LOCAL, and PostgreSQL RLS after security audits identified cross-tenant IDOR risks, then enforced the boundaries with composite foreign keys, EXCLUDE constraints, and regression tests.
- Designed a PaymentGateway trait with per-country routing that unified Stripe, SSLCommerz, bKash, and Polar.sh, backed by an immutable payment_events audit trail.

InvoiceOS July 2025 – July 2026

Multi-tenant invoicing SaaS (Cloudflare Workers, tRPC, Supabase PostgreSQL) with a SvelteKit 5 frontend.

- Cut invoice-list latency by approximately 90%, from 150–400 ms to 10–30 ms, by normalizing JSONB invoice data into relational tables, pushing analytics into PostgreSQL RPCs, eliminating N+1 query paths, and adding targeted indexes.
- Co-founded InvoiceOS, an AI-powered invoicing SaaS, and built its typed tRPC API, SvelteKit 5 frontend, and Turbo monorepo.
- Led two full platform rebuilds, replacing a Hono REST API with typed tRPC and consolidating a multi-app Next.js layout into a single SvelteKit application.

Education

University of Central Lancashire, Bachelor in Information Technology – Kuala Lumpur, Malaysia Feb 2019 – Mar 2022

- GPA: 3.70/4.00, dual-degree award with SEGi University
- Valedictorian (2021), Dean's List (five times)

Languages

English (Fluent), Bangla (Native)