

TANUJ PANT

FULL-STACK ENGINEER
(TYPESCRIPT / REACT / NODE.JS)

CONTACT

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PROFILE

Senior full-stack engineer with 7+ years of experience building and scaling production systems. Strong in React, Next.js, TypeScript, and Node.js, with hands-on experience designing distributed, event-driven, fault-tolerant and idempotent systems using Redis, PostgreSQL, Docker, and Kubernetes. Experienced in building observability pipelines with OpenTelemetry, Prometheus, Tempo, Loki, and Grafana, and developing AI coding agents with context management, hooks, compaction, and sub-agent orchestration. Strong ownership mindset with a focus on performance, reliability, and pragmatic engineering decisions.

SKILLS

FRONTEND

- React, Next.js, TypeScript, JavaScript
- UI architecture, performance optimization

BACKEND

- Node.js, REST APIs
- Background processing & async workflows
- Data-intensive systems
- Observability via OTLP (Grafana)

DATA & PERFORMANCE

- Relational databases (MySQL / PostgreSQL)
- Bulk inserts, ingestion pipelines
- Benchmarking & optimization

ENGINEERING & AI

- System design & debugging
- Custom Coding Agent Harness
- Scalability & trade-off analysis
- Kubernetes, Docker, Service Mesh

GITHUB PROJECTS

EVENT-DRIVEN PERPETUAL FUTURES MATCHING ENGINE

<https://github.com/tannu13/perp-v2>

A high-performance, fault-tolerant, and event-driven perpetual futures trading platform architecture. The repository implements a decoupled, distributed microservices system designed around an in-memory matching engine utilizing Redis Streams for asynchronous, high-throughput message bus communication.

LOVEABLE APP CLONE USING KUBERNETES

<https://github.com/tannu13/loveable-clone>

AI-powered loveable.dev-inspired coding platform with isolated Kubernetes workspaces, LLM tool calling, custom agent harness, real-time streaming, live preview environments, and scalable multi-agent orchestration using Redis, Express, TypeScript, and Bun.

EXPERIENCE

DEVELOPER

FREIGHTEXCHANGE | AUSTRALIA | NOV 2022 - JAN 2026

- Led the migration from a monolith to REST-based microservices, defining service boundaries and API contracts to improve platform scalability, maintainability, and independent service evolution.
- Architected virtualized data tables for 10K+ records, combining horizontal/vertical virtualization with externally hoisted state to preserve edits across row lifecycle changes; enabled responsive inline and bulk editing at scale.
- Automated carrier onboarding, rate management, and invoice reconciliation, transforming operationally heavy workflows into self-service configuration and mapping experiences and reducing manual processing from approx 3 weeks to 1-2 days.
- Integrated with Stripe to pivot to a SaaS based model for the business to have predictive revenues.

SOFTWARE ENGINEER

WOOTAG PTE LTD | SINGAPORE | APR 2021 - NOV 2022

- Built React-based workflows for creating, configuring, previewing, and publishing interactive video ads across the campaign lifecycle.
- Integrated React authoring with a lightweight Preact ad player via iframe and postMessage, enabling real-time synchronization of ad configuration and metadata.
- Optimized publisher-side ad delivery around strict bundle-size constraints, using Preact and runtime isolation to maintain lightweight, performant ad experiences across 50+ publishers.

APPLICATION DEVELOPER

PINCH / ACL MOBILE | INDIA | JUL 2018 - MAR 2021

- Built Vue.js & React.js applications end-to-end, owning UI architecture and integrations.
- Redesigned a high-volume CSV ingestion pipeline processing 1-4M-row files, optimizing the dominant ~80% new-record workload and reducing end-to-end processing time by ~86-95%.
- Re-architected background processing and database persistence for million-row uploads, substantially improving throughput, scalability, and reliability of large customer data imports.