# Rajat Goel

### LEAD / SENIOR SOFTWARE ENGINEER

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Tajatgoel.xyz (portfolio)

in Rajat Goel

Full-stack Web3 engineer (5.5+ yrs) in DeFi, finance & high-performance systems; ex-Opyn, founded Optionlogy. Built ultra-fast trading infra, led teams, & craft elegant, intuitive solutions.

#### **EXPERIENCE**

Lead Full-Stack Engineer • 🚳 Opyn Markets (acq by 🖸 Coinbase)



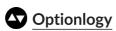


Mov. 2024 - July 2025

Opyn pioneered the Power Perp (Squeeth) — a capital-efficient, on-chain perpetual options primitive without order books.

- Created end-to-end trading flows, integrating arbitrum smart contracts via indexers, alchemy SDKs, and direct RPC calls.
- Implemented contract read, write & simulate logic for trade execution, transaction builder, position management, Uniswap calls, collateral and LP adjustments and more with viem/wagmi in NextJS to enable seamless trading experiences.
- Designed real-time on-chain data indexer for trade events, pricing, liquidity, and risk parameters, in ponder, ensuring <200ms UI response for active DeFi traders.
- Engineered advanced off-chain calculations for liquidations, execution price, price impact, portfolio health, expected payoff, expected liquidations & more for a complete view of your existing portfolio as well as any new potential trade
- Collaborated with smart contract engineers to design user interaction patterns minimizing gas costs and failed transactions through batched multicalls, transaction simulations, and advanced validations based on liquidity and risk.
- Developed dashboards to visualize payoff & risk metrics for on-chain positions, leveraging advanced options knowledge.
- Worked closely with protocol researchers to translate **DeFi economic mechanisms** into clear, actionable user experiences.

## CTO & Co-Founder • • Optionlogy



苗 Nov. 2021 - Dec. 2024

Optionlogy was a Fintech product providing automated trading and market analysis in the futures & options segment to 60K+ traders. As the CTO, I:

- Built a multi-leg options analytics suite with payoff curves, greeks, implied volatility, deltas, breakevens, and probability of profit, powered by a custom Black-Scholes variant combining implied volatilities for more realistic pricing.
- Designed real-time data pipelines for market feeds and analytics using WebSockets, Kafka, TimescaleDB, Redis, Python, Go, and Celery, delivering millisecond-level updates to traders.
- Engineered a distributed algo trading system in Go using a master-slave architecture, managing load, job scheduling, and availability of strategy processor nodes, enabling parallel execution across thousands of trading strategies.
- Developed a clean, intuitive & bug free user interface with streaming analytics using NextJS, ReactJS, WS, Figma
- Worked with databases & caching layers such as redis and elasticsearch for fast & scalable trading & analysis
- Managed a tech team of 5 people providing them with architectural design, technical guidance and PR reviews

# Chief Technology Officer • K GreeX

苗 Feb. 2024 - July. 2024

Led by ex-Binance folks, GreeX was an early stage Crypto CEX, aimed at making crypto options easier and accessible

- Built core exchange infra: ultra-low-latency C++ matching engine (Liquibooks) and risk & liquidation systems, with optimized API design, caching, and performance tuning.
- Engineered a high-throughput Kafka data bus for market data and order flow.
- Managed a 3-person team, steering architecture, reviewing PRs, and driving delivery of critical systems.
- Designed and shipped a gamified Telegram mini-app for options trading, from UX to wallet integration.

## Principal Software Engineer • Madverse



Feb. 2024 - June. 2024

- Interacted with CTO and leadership to discuss product plans and provided timelines, suggestions & blockers
- Implemented features such as AI Cover Art using NextJs, Prisma, OpenAi & Stability SDXL APIs, tRPC and S3
- Developed new internal flows for payment processing for multi-country users using Stripe + Razorpay
- Fixed UX flows and bugs throughout the platform, reducing customer churn significantly

## Data Associate • > Innovaccer

🛱 Feb. 2022 - Nov. 2022

- Developed data and ETL pipelines for mission critical analytics using SQL, ElasticSearch, python & Azkaban
- Worked with big data and created statistics and dashboards to find insights & metrics using PowerBI and python
- Resolved product level issues and integrated features, reducing the time taken in getting multiple teams involved

### **SKILLS**

Full Stack Development, Software Architecture, System Design, Algorithmic thinking, Networks, Cloud Solutions, Caching Strategy

### **EDUCATION**

Bachelor of Technology - Computer Science

Jaypee Institute of Information Technology

**=** 2022

## **Programming Languages**

- ReactJs NextJS Typescript NodeJS GoLang Java Python SQL MongoDB Redis
- React Native AWS & GCP PowerBI Linux Containerisation ElasticSearch Wagmi Web3