### DUBAI, UAE | UTC +04:00

# Rajat Goel

### LEAD SOFTWARE ENGINEER

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rajatgoel.xyz (portfolio)

ំណ Rajat Goel

Full-stack engineer for 5.5y specifically working in DeFi, TradFi, & high-performance trading infra. ex-Opyn - built smart contract integrations, indexers, liquidation/risk hooks, & full trading UIs. Founded **Optionlogy**- ultra-low-latency **options analytics & auto-trading SaaS**, scaled to thousands. I'm exceptionally good at building for speed, precision & elegant UX.

#### **KEY ACHIEVEMENTS**

- Launched Opyn markets testnet over arbitrum sepolia, building custom indexers, smart contract interactions, SPAN margin calculations and APIs that powered >5000 testnet traders.
- Built high-throughput blockchain indexer processing 45K+ daily events with millisecond API latency.
- Created options analytics tools (Greeks, payoff, BSM predictions) for 60K+ traders on Optionlogy.
- Engineered low-latency distributed algo trading engine handling 400+ strategies per node.
- Cut strategy execution latency by 200% via optimized Kafka, Redis, and in-memory pipelines.
- Scaled Optionlogy to 60K users with high availability and real-time PnL/backtesting features.
- Delivered rapid, modular API releases in <1 week cycles without downtime.

### **TECHNICAL SKILLS**

- Programming Languages: TypeScript(5.5y), JavaScript(6y), Python(6y), Go(3y), Java(1y), Solidity
- Fullstack Frameworks & Libraries: Next.js(5y), React(6y), Node.js(5y), echo(3y), gin(3y), FastAPI(4y), Prisma(2y), tRPC(2y), TradingView Advanced Charts(3.5y), react-charts(3.5y), shadcn(2y), Tailwind CSS(3y), LangChain(1y), OpenAl SDK(1y), Apache Flink(3y), Kafka(3y)
- Web3 & Blockchain: Wagmi(1y), viem(1y), ethers.js(1y), RainbowKit(1y), WalletConnect(1y), OpenZeppelin(6mo), Foundry(1y), Hardhat(1y), Ponder(1y)
- Data & Storage: PostgreSQL(5y), Supabase(3y), MongoDB(5y), DynamoDB(4y), Redis(5y), Elasticsearch(1y), Amazon S3(5y)
- **DevOps & Infrastructure:** AWS(5y), GCP(5y), Kubernetes(2y), Docker(4y), TurboRepo(1y), pm2(5y)

#### **EXPERIENCE**





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 for >5000 users.
- Designed real-time on-chain data indexer for 45K+ trade events, pricing, liquidity, and risk parameters, in **ponder**, ensuring **<200ms UI response** for active DeFi traders.
- Engineered advanced off-chain calculations for SPAN margin, 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

🛱 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, catering to >1500 ticks per second 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 of 400+ long running strategies per node 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 • ➤ GreeX

🛱 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 with sub 1ms order matching (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

#### **EDUCATION**

### Bachelor of Technology - Computer Science

☐ Jaypee Institute of Information Technology

**=** 2022