


Rajat Goel

LEAD / SENIOR SOFTWARE ENGINEER

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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**)  Nov. 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**  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 •  **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** (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

- 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
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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