NILADRI NEOGY

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Team Lead - Capital Markets & Trading Platforms

PROFESSIONAL SUMMARY

Engineering leader with 12+ years in software engineering and 8+ years architecting and modernizing mission-critical capital-market trading platforms. Trusted by management as the technical decision-maker consulted before committing to major initiatives - the person who evaluates feasibility, reduces technical uncertainty, and owns delivery from business idea to production.

Starts with the business problem, not the technology: understands the product and its users, assesses fit with the existing architecture, then chooses the simplest design that delivers long-term value. Deep specialist in exchange connectivity (NSE/BSE), OMS, real-time market-data broadcasting, and binary protocol integration, with a track record of modernizing legacy platforms and using AI to accelerate delivery without surrendering architectural ownership.

CORE COMPETENCIES

Architecture and Engineering: Solution Architecture, Backend Architecture, API Design, Domain-Driven Modular Design, Real-Time and Event-Based Communication, Legacy Platform Modernization

Capital Markets: Order Management Systems (OMS), Exchange Connectivity (NSE/BSE), Market-Data Broadcasting, Binary Packet Processing, Equity / F&O / Currency / Commodity, IPO Bidding, Margin Allocation, RMS and margining (functional knowledge)

Leadership and Delivery: Technical Leadership, Technical Hiring and Interviewing (10+ years), Mentoring, Feasibility Assessment, Vendor Coordination, Agile / Scrum

KEY PROJECTS

End-to-End Exchange Communication Backend

Own the complete backend that connects the trading platform to the exchanges. It receives and parses binary broadcast packets from NSE/BSE, streams live market data to the web and mobile front ends, routes client orders to the exchange, and processes exchange responses (order confirmations, trades, rejections) to update order status in real time.

WebSocket Platform Modernization

Proposed and led the replacement of the legacy TCP market-data layer with a standards-based WebSocket architecture - cutting attack surface and integration complexity and unlocking the iOS and Android apps, with the web platform migration to follow. The broadcast engine streams live market data to ~5,000 concurrent mobile users at sub-millisecond latency.

Cross-Platform Mobile Trading Platform

Closed a year-long product gap (no iOS app) by building the backend first so Android and iOS share one platform. Recruited and led the Android developers and personally delivered the production iOS app using AI-assisted Flutter - owning application flow, API contracts, and UX, and avoiding approximately Rs. 5 lakh in outsourcing cost.

Trading API and Architecture Decision

Designed and built the backend trading API serving web and mobile clients. When microservices were proposed, recommended a domain-based modular architecture instead - for a focused team and tightly coupled, consistency-critical financial workflows, microservices would have added operational overhead with no offsetting benefit.

NSE Encryption Change - Protocol-Level Debugging

Reverse-engineered an undocumented exchange change to the order-request packet encryption with minimal vendor support; debugged at the binary-protocol level and delivered the fix one week before the regulatory deadline.

Digital Account Opening Modernization

Replaced a manual, physical process with a fully paperless digital journey (KYC, document upload, e-signature). Cut onboarding from ~2 days to under a day and scaled volume from fewer than 10 to ~100 per day; now building the next-generation onboarding system and its API.

PROFESSIONAL EXPERIENCE

Team Lead

Shriram Insight Share Broker Ltd | Sep 2018 - Present | Kolkata, India

Promoted from Software Engineer (2018-2021) to Team Lead (2021-Present). Technical lead for a business-critical trading platform serving 3,000-4,000 clients/day across equity, F&O, currency, and commodity - 8 exchange-connected backends, 5-6 services, 7-8 SQL Server databases - with zero missed trading sessions in 5 years.

- Lead a team of 10 engineers, assigning project leads per initiative; recruit, interview, and mentor, coaching to individual strengths rather than a one-size-fits-all approach.

- Primary technical escalation point and feasibility advisor for production-critical systems.
- Currently leading the BSE Futures & Options integration ground-up (two-way order flow, packet structures, real-time derivatives broadcast), with NSE Commodity next in the pipeline.
- Own IPO bidding (BSE API), order routing, back-office calculations, and MIS reporting; delivered the disaster-recovery replica of the trading backend and the client collateral-to-exchange margin transfer mechanism; maintain continuous exchange compliance against frequent NSE/BSE protocol changes.

PHP Developer
Express Atmospheric Science and Research Pvt. Ltd | May 2017 - Aug 2018 | Kolkata, India

- Built and maintained the Farmneed SaaS portal (CodeIgniter HMVC) with role-based secured workflows; integrated third-party weather APIs for real-time crop alerts and documented REST endpoints for the mobile app.

Project Manager
4I BRANDZ | Jun 2015 - Apr 2017 | Kolkata, India

- Delivered 40+ web and mobile projects on scope, budget, and deadline, including an online streaming platform and the company's first payment-gateway integration. Hands-on in PHP, WordPress, JavaScript, and MySQL.

Trainee Software Engineer
Aasa Globsys | Sep 2013 - May 2015 | India

- Contributed to full-SDLC delivery of government and private-sector projects using PHP, ASP.NET, JavaScript, and SQL Server.

TECHNICAL SKILLS

Languages and Frameworks: C#, .NET Framework, ASP.NET MVC, ASP.NET Core, Web API, Entity Framework, PHP / CodeIgniter

Real-Time and Protocols: TCP/IP Socket Programming, WebSocket, Binary Packet Processing, Exchange Communication Protocols, Market-Data Broadcasting, Multithreading, Windows Services

Databases: Microsoft SQL Server, MySQL

Infrastructure: IIS, Windows Server, Git

Mobile: Flutter (iOS and Android)

AI-Assisted Development: Claude, OpenAI Codex

ENGINEERING PHILOSOPHY

Business before technology | Simplicity over unnecessary complexity | Maintainable over clever code | Security by design | User experience drives decisions | Modernize incrementally | AI to accelerate while retaining architectural ownership

CERTIFICATIONS AND EDUCATION

Certifications: Certified ScrumMaster (CSM); ITIL 4 Foundation

Education: B.Tech, Computer Science and Engineering - West Bengal University of Technology (WBUT), 2009-2013, CGPA 8.15 / 10