

Aaditya Tamrakar

Software Engineer · Quant Developer · India, open to relocation

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Quant developer and software engineer in Python, Go and TypeScript. Currently building Greeks-based options strategies and MT5 trading systems as a freelancer; previously shipped 80+ trading strategies handling ₹200 crore at Algo Maker and production Go services, data pipelines and CI/CD at Viasat.

WORK EXPERIENCE

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|--|---|--|
| Independent | <i>Quant Researcher & Developer</i> | Remote · Jan 2026 – Present |
| <ul style="list-style-type: none">Built 50+ MT5 Expert Advisors for gold CFDs; the 5 to 6 in production use recovery-factor based risk and run at 80%+ trade accuracy for freelance clients.Designed systematic intraday Nifty straddle strategies: Supertrend and other indicator signals on the ATM straddle premium series, Greeks-based position management, automated entry and exit via broker APIs.Backtested 300+ strategy variants across 20+ technical indicators on US and Indian index and stock options history; monitor the live ones on Indian index options daily. | | |
| Viasat Inc. | <i>Software Engineer II</i> | Remote, US · May 2023 – Dec 2025 · Intern, Summer 2022 |
| <ul style="list-style-type: none">Built a Go microservice that monitors servers deployed on aircraft, with the core platform team.Took a production API endpoint serving 2 million requests a day from a 50% failure rate to 100% success; owned Snowflake schema changes and Airflow DAGs for in-flight connectivity data.Owned product deployments: push-triggered GitHub Actions CI/CD with Python build and deploy scripts, CloudFormation stacks and AWS Secrets Manager, shipping to Kubernetes end to end; consolidated shared code into a common library with 100% unit test coverage. | | |
| Algo Maker LLP | <i>Full Stack Developer</i> | Mumbai, IN · Dec 2020 – Aug 2021 |
| <ul style="list-style-type: none">Built 80+ price action and indicator based signal and strategy algorithms, from time and price triggers to market making, that placed ~10,000 orders a day over WebSockets at under 30 ms latency for funds up to ₹200 crore (~\$24M).Built an Angular and Express risk dashboard on MongoDB that cut the time to assess exposure and place orders by 50%.Deployed the platform on AWS in the region closest to the broker, making order execution 20% faster. | | |
| Accio.ai | <i>Software Engineer Intern</i> | Mumbai, IN · Apr – Sep 2018 |
| <ul style="list-style-type: none">Built the analytics ingestion pipeline for ad clicks, impressions and views (~60M events a month) into MongoDB, plus the REST API for ad payment reporting. | | |

EDUCATION

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|--|--|--------------------------|
| Master of Science in Computer Science | <i>University of Massachusetts, Boston</i> | CGPA 3.7/4 · 2021 – 2023 |
| <ul style="list-style-type: none">Graduate Teaching Fellow for CS240 Programming in C, two semesters, classes of 51 and 67 students. | | |

PROJECTS & OPEN SOURCE

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|------------------------------|---|-------------------|
| Option Chain Analysis | · Live NSE Nifty option chain, every strike classified by price and open interest change · Node.js | 100+ stars · 2019 |
| Broker SDKs | · Kite Connect (Go), XTS v2 and 5paisa (Node.js), Hummingbot client (Python), option pricing formulas | 2020 – 2025 |
| UMB Trading App | · Options trading interface designed for beginners · Figma, JavaScript | 2021 |

SKILLS

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|-------------------------|---|
| Languages | Go, Python, TypeScript, JavaScript, C++, C, SQL |
| Trading | Options Greeks, backtesting, order execution, market making, MT5/MQL5 EAs, WebSockets, NSE option chain data, broker APIs |
| Data & infra | AWS, CloudFormation, Secrets Manager, GitHub Actions, Kubernetes, Docker, Snowflake, Airflow, Redis, MongoDB, Linux |