

DEVDATTA THUBE

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SUMMARY

Highly proficient Senior Software Engineer with nearly 3 years of experience specializing in architecting and developing high-performance, real-time trading and financial technology platforms. Expertise in event-driven microservices, multi-tenant system design (SaaS), complex data pipelines, and full-stack development using Python (Django, ASGI) and cutting-edge asynchronous technologies (NATS JetStream). Seeking to leverage deep domain knowledge in FinTech and strong DevOps skills to drive scalable and robust software solutions.

SKILLS

- **Languages:** Python (Advanced), SQL, JavaScript, Shell Scripting (Bash)
- **Backend & Architecture:** Django (DRF, Channels, Tenants), ASGI/Ayncio, Microservices, Event-Driven Architecture, System Design, Multi-Tenant SaaS, WebSockets
- **Data & HPC:** PostgreSQL, NATS JetStream, Redis, SQLAlchemy, Alembic, Polars, PyArrow, MsgPack, Pydantic
- **Infra & DevOps:** AWS (EC2, IAM), Ansible, Nginx, Systemd, OpenTelemetry, Datadog, Signoz, Prometheus, CI/CD, Linux Administration
- **Leadership:** Technical Mentorship, Hiring & Scaling, Strategic Prioritization, Stakeholder Communication, Technical Pragmatism

EXPERIENCE

Jan 2025 – Present · **Senior Software Engineer** · Oleander Financial Technologies

- **Project: OLGO Algorithmic Trading Platform** – Architected an event-driven microservices layer using NATS JetStream to decouple market data, strategy, allocation, and execution flows, enabling public-launch scalability and fault isolation.
 - Designed an elastically scalable orchestration engine for continuous financial data streams, utilizing a Registry/Node topology to dynamically distribute tick-to-bar, indicator, and custom calculation workloads.
 - Standardized message contracts with MsgPack + Pydantic across services to improve service reusability and reduce coupling.
 - Implemented async NATS task workers with dedicated compute pools for CPU-bound and I/O-bound workloads, achieving higher throughput and concurrency.
 - Streamlined service delivery on EC2 via Nginx and Systemd configuration, ensuring production reliability with OpenTelemetry and Signoz monitoring.
- **Project: Protrade Multi-Account System** – Developed a multi-tenant portfolio management system using Django + django-tenants to ensure tenant-isolated data access, scalability, and compliance.
 - Engineered real-time market data delivery using Django Channels + Redis Pub/Sub + ASGI (Daphne) for low-latency streaming and reliable updates.
 - Built bulk diff-and-sync workflows across broker APIs to reduce data drift and position reconciliation reliably.
 - Ensured thread-safe position updates by implementing transactional updates with row-level locking and shared quantity-delta logic.
 - Orchestrated production deployment with systemd-managed services for Daphne and Huey, improving uptime and automatic recovery.
 - Delivered an MVP in 3 months and onboarded the first trial customer, owning end-to-end SDLC as the sole engineer.
- **Team Scaling:** Interviewed 50+ candidates (2–5 years experience) to support rapid team expansion.

Jul 2023 – Dec 2024 · **Software Engineer** · Dasha Krit Technologies

- Designed a modular trading engine using broker/datafeed/strategy abstractions to standardize multi-broker execution flows, ensuring maintainability and plug-in extensibility.

- » Developed the real-time UI layer using Django MVC + Channels/WebSockets for low-latency P&L and order streaming, ensuring scalable, event-driven updates.
- » Implemented explicit state-transition validation and structured logging, achieving higher order-state correctness and reduced invalid transitions.
- » Engineered observability by integrating OpenTelemetry instrumentation and structured logging services, improving trace coverage and operational diagnostics.
- » Orchestrated production deployment on AWS EC2 with Ansible, systemd, and Nginx for Daphne, ensuring repeatable, automated releases and uptime.

Oct 2021 – May 2023 **Quality Control Officer** Emcure Pharmaceuticals Ltd.

- » Coordinated testing schedules with production teams to align validation and manufacturing timelines, ensuring operational efficiency and zero/minimal downtime.
- » Executed rigorous QA protocols and environmental monitoring to ensure strict adherence to GMP standards.
- » Managed time-critical analytical workflows and reporting pipelines, prioritizing concurrent tasks to meet strict service-level deadlines.

»»» EDUCATION

2018 – 2020 **M.Sc (Microbiology)** Abasaheb Garware College, Pune

- » Affiliated to Savitribai Phule Pune University. 8.1 CGPA.

2015 – 2018 **B.Sc (Microbiology)** Ahmednagar College

- » Affiliated to Savitribai Phule Pune University. 73%.