Siddhartha Gurram Software Developer

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Summary

Software Developer with over 3 years of proven experience in building high-performance fintech and marketplace platforms. Skilled in Python, Java, Kafka, PostgreSQL, and AWS/Azure, with a strong foundation in scalable microservices, real-time APIs (GraphQL, gRPC), and CI/CD automation. Delivered secure, low-latency applications supporting 100K+ users and 1M+ daily transactions. Adept at Agile collaboration with quant and product teams, backed by a Master's in Computer Science from the University of North Texas.

Technical Skills

- **Languages & Frameworks**: Python (FastAPI, Celery, SQLAlchemy), Java (Vaadin, JSP, Servlets, JavaFX), JavaScript, HTML, CSS
- **Frontend Development**: React.js, Vaadin, JavaFX, JSP, d3.js, Figma, React Router
- **Backend & API Development**: Node.js, Express.js, GraphQL, REST, gRPC
- **Databases & Caching**: PostgreSQL, TimescaleDB, MongoDB, Redis
- **Cloud Platforms**: AWS (CodePipeline, IAM, HSM, Prometheus, Grafana), Azure (App Services, DevOps, Key Vault, Application Insights)
- **DevOps & CI/CD**: Terraform (IaC), Azure DevOps, Git, GitHub, SonarQube, Blue-Green Deployments
- **Authentication & Security**: OAuth 2.0, JWT, OpenID Connect, RBAC, AES-256 Encryption, PCI DSS Compliance, API Rate Limiting
- **Testing & Monitoring**: PyTest, Unittest, RestAssured, JMeter, Prometheus, Grafana, Azure Application Insights
- **Visualization & Reporting**: Tableau, Power BI, d3.js
- **Other Tools & Libraries**: Multer, Axios

Professional Experience

Software Developer, *Addepar* — 07/2024 – Present | Remote, USA

- Collaborated with product and quant teams in an Agile environment to develop a Multi-Asset Robo-Advisory platform using GraphQL APIs, enabling real-time personalized portfolio management for 100K+ investors with sub-50ms trade execution latency.
- Designed and developed a scalable backend using Python (FastAPI), Kafka, and gRPC, architecting event-driven microservices to process 500K+ daily financial transactions with secure OAuth 2.0 authentication.
- Optimized database architecture with PostgreSQL and TimescaleDB, implementing partitioning, sharding, and multi-region replication to reduce query latency by 40% and ensure 99.98% data availability for real-time asset tracking.
- Built interactive and real-time UI components using Java (Vaadin) and WebSockets, enabling instant portfolio updates and delivering dynamic investment insights through server-side rendering and stateful client sessions.
- Enforced enterprise-grade security and quality standards by implementing RBAC, PCI DSS compliance, and HSM-based encryption, and conducted testing using PyTest, Unittest, RestAssured, and JMeter for functional and performance validation.
- Automated cloud deployment pipelines using AWS CodePipeline, Terraform (IaC), and Blue-Green Deployments, achieving an 85% reduction in release failures while enabling full-stack observability via Prometheus and Grafana monitoring.

Software Developer, *LTIMindtree* — 01/2021 - 08/2022 | Hyderabad, India

- Gathered requirements from product owners and designed a scalable Multi-Vendor Marketplace Platform using microservices architecture, ensuring 99.9% uptime and seamless vendor-customer operations in an Agile SDLC environment.
- Designed and implemented frontend components using Java-based technologies (JSP, Servlets, JavaFX), built reusable UI templates, and conducted A/B testing, resulting in a 40% improvement in page load time and user engagement.
- Developed backend services using Python (FastAPI, Celery) and integrated Kafka for asynchronous communication, enabling real-time data processing of over 1M daily transactions with 99.95% fault tolerance through circuit breaker patterns.
- Tuned PostgreSQL database performance by applying indexing, table partitioning, and Redis-based caching via Python ORM (SQLAlchemy), reducing query response time by 60% and improving system responsiveness during peak loads.
- Secured the application using OAuth 2.0, JWT, and OpenID Connect for user authentication, implemented RBAC and AES-256 encryption, and applied API rate limiting to prevent unauthorized access across 500K+ daily logins.
- Automated CI/CD pipelines using Azure DevOps and Terraform, configured SonarQube for static code analysis, and enabled blue-green deployments, reducing deployment time by 70% and ensuring zero-downtime production releases.
- Deployed services on Azure App Services with SQL Geo-Replication to support 2M+ monthly users, set up Azure Key Vault for secure secret storage, and enabled Application Insights for real-time telemetry and performance monitoring.

Education

Master of Science, *University of North Texas* — 08/2022 – 05/2024 | Denton, TX, USA
Computer Science

Projects

Food Recipe App

- Built a MERN stack app to create, edit, and search recipes with image uploads (Multer). Used Axios for API calls, React Router for navigation, and MongoDB for data storage.
- Tech: React, Node.js, Express, MongoDB, Multer, Axios, React Router

Global Socio-Economic Visualization

- Merged datasets on population, blood types, and GDP to build interactive dashboards. Visualized trends using Tableau, Power BI, and d3.js for insightful analysis.
- Tech: Tableau, Power BI, d3.js, HTML, CSS, JS, Figma

Library Management System

- Developed a responsive web app for managing books and users. Included borrow/return features, validation, and tested for functionality.
- Tech: HTML, CSS, JavaScript, Unit & Functional Testing