**KISHORE VINNAKOTA**

**SUMMARY:**

Accomplished software architect/engineer with over 15 years of experience in designing, developing, and delivering software solutions using modern technologies, including Java, C++, and Python. Extensive experience (6+ years) in supporting front-office financial technology, with a focus on Java and Python. Proficient in designing and scaling microservices architectures and building large-scale distributed systems to handle high-volume data.

Demonstrated success in leading teams and product development from inception to delivery. Strong expertise in algorithmic trading platforms and a deep understanding of equities and financial markets. Adept at mentoring and building high-performing teams, with excellent problem-solving and analytical skills. Knowledgeable in low-level systems internals and familiar with functional programming languages, including Haskell and Lisp.

**SKILLS:**

Languages: C++, Python, Java, Scripting, Ruby on Rails, SQL, PL/SQL.

Operating Systems: Linux, HP-UX, MS Win'NT, Solaris.

Databases: Oracle, MS-Access, Sybase, Informix, SQL Server, MySQL.

Protocols: TCP/IP, SNMP, SMTP, SOAP, SS7, WSDL, RMI, RPC.

Technology: Microservices, modern frameworks, AWS.

Communication: Excellent oral and written communication skills.

Leadership: Strong leadership and team building skills.

**EDUCATION:**

Master of Science in Computer Science, Wichita State University, Wichita, KS (4.0 GPA)

Bachelor of Engineering in Computer Science and Engineering, JNTU, Hyderabad, AP, India

Cisco Certified Networking Associate (CCNA) Certification

**WORK EXPERIENCE:**

**Bloomberg LP, New York, NY**

**Mar. 2015 – Present**

**Senior Software Developer**

Contributed to a variety of high-impact projects, including trade execution management systems (EmsX), order management (TradeBook), Bloomberg Law search engines, workflow engines, and distributed systems. Led greenfield initiatives, designing and implementing a matching engine, smart order routing systems, and exchange connectivity solutions.

Architected and delivered production-grade matching engines and smart order routing services, while maintaining and enhancing mission-critical systems to meet evolving business needs. Collaborated closely with front-office teams to develop and optimize workflows for options trading desks.

Primarily responsible for architecting and developing Java services, with additional experience building Java-based services.

**Responsibilities:**

* Architected and developed scalable Java services for optimal performance.
* Optimized workflows in collaboration with front-office options traders.
* Enhanced API performance, improving responsiveness and throughput.
* Redesigned the data model for improved search efficiency.
* Built low-latency, high-frequency Java services for critical operations.
* Used SISCI API to achieve high throughput in market data processing.
* Worked with stakeholders to define requirements and shorten time-to-market.
* Mentored new hires, ensuring rapid onboarding and product comprehension.
* Delivered new features for the front-office trading desk, boosting efficiency.
* Used low latency optimization techniques for improving latencies.
* Maintained and upgraded legacy C++ services for stability.

Environment: Java, Large Scale Distributed Systems, Kafka messaging, Python, Search

**E-Trade Financial, Jersey City, NY**

**Feb. 2014 – Feb. 2015**

**AVP**

**Routex Team:** Managed order routing and FIX connectivity for retail orders. Refactored and maintained the Java based rules engine to integrate new business rules and meet evolving market requirements. Led the migration of the core order management engine to an updated version of C++ for improved performance and maintainability.

**Responsibilities:**

* Refactored and rearchitected the SURF module for business rule enforcement.
* Enhanced and maintained the core Routex order routing module.
* Implemented additional functionality for compliance and back office data export.
* Updated FIX engine to support newer versions of the FIX protocol.

**Pimco Investments, New York City, NY**

**Jul. 2012 – Feb. 2014**

**Consultant**

- Automated Compliance Environment (ACE) Project: Automated compliance process for client mandates. Refactored thread allocation model and startup sequence organization for improved performance.

**Responsibilities:**

* Designed a threading model to increase throughput.
* Implemented and rolled out the new threading
* Enhanced rules engine to support varied new rules and business requirements.

**Flextrade Systems Inc, Long Island, NY**

**Mar. 2007 – Jun. 2012**

**Senior Software Developer**

* Contributed to the development of a low-latency, high-throughput trading platform, focusing on algorithmic trading strategies, smart order routing, dark-pool routing, and options market making.
* Enhanced and maintained the order management system.
* Developed a dark-pool router from design to implementation and deployment.
* Conducted performance tuning in C/C++ to optimize system efficiency.
* Utilized Python for creating test harnesses and automating routine tasks.
* Developed an internal web-based tool using Python/Django for dark pool testing.
* Supported quant/trader developers in algorithmic trading platform enhancements.
* Implemented C/C++ for building easily maintainable and extensible systems.
* Developed and maintained standard trading strategies such as Percent Vol and VWAP.
* Built a front-end GUI builder using Gtk for custom GUI creation.

Environment: C/C++, Python, Django, Gtk