**MONIKA REDDY**

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**C++ SOFTWARE DEVELOPER**

**PROFESSIONAL SUMMARY**

* C++ Software Developer with experience in real-time, high-performance application development across trading and data-intensive platforms.
* Proficient in C++ server-side development with strong understanding of memory management, thread safety, and multithreading.
* Adept at designing, optimizing, and deploying low-latency trading algorithms and automated systems.
* Experience with network programming, inter-process communication, and distributed systems in Linux environments.
* Strong in applying SOLID principles, data structures, and algorithmic design for high-frequency trading and performance-sensitive platforms.
* Familiar with analyzing market data to validate trading strategies and enhance algorithmic efficiency.
* Ability to quickly learn new tools and adapt to dynamic trading environments.
* Skilled in collaborating with traders and analysts to transform trading logic into scalable software solutions.
* Proficient in writing clean, well-documented, and testable code for scalable software architecture.
* Developed compliance and risk tools to support real-time monitoring and adherence to internal guidelines.
* Familiar with SQL and NoSQL databases, enabling efficient handling of historical and streaming datasets.
* Quick problem-solver with a passion for finance, automation, and emerging technologies.
* Team-oriented with strong communication and collaboration skills in fast-paced environments.
* Driven to take ownership of core development initiatives that directly influence business operations.
* Versatile developer with experience across languages and platforms beyond C++, enhancing flexibility in project scope.

**TECHNICAL SKILLS**

Languages: C++, C#, Python, T-SQL, JavaScript

Concepts: SOLID Principles, Data Structures, Multithreading, Memory Management

Frameworks: .NET Core, Web API, STL, Boost

Systems: Linux, Windows, Real-Time Systems, Distributed Systems

Databases: SQL Server, PostgreSQL, MongoDB

Tools: Visual Studio, Git, GDB, Valgrind, Wireshark

Other: Network Programming, Inter-process Communication, Low-Latency Architecture

**PROFESSIONAL EXPERIENCE**

Client: Kroger

Role: C++ Software Developer

Jan 2024 – Present

* Designed and optimized automated trading strategies for equities and options using multithreaded C++ applications.
* Developed core components of a high-performance trading platform supporting real-time price feeds and execution.
* Implemented low-latency modules for rapid order entry and market data processing in Linux-based environments.
* Enhanced internal backtesting and simulation systems to validate strategies using historical and live market data.
* Built tools to assist risk assessment and compliance, aligning with internal trading guidelines.
* Interfaced with traders and quants to refine requirements and incorporate them into algorithmic models.
* Wrote networked services using TCP/UDP for efficient communication across distributed systems.
* Tuned application performance using profiling tools, eliminating critical latency bottlenecks.
* Participated in architectural reviews and ensured code modularity, readability, and test coverage.
* Maintained documentation supporting internal trading operations and commercial product development.

Client: Workday Inc.

Role: Software Developer

Jan 2021 – Jul 2023

* Developed application modules in React, TypeScript, and C# for enterprise product interfaces.
* Implemented backend logic in Azure Functions and .NET, integrating with SQL Server and secured via Azure AD.
* Built chatbot solutions for customer service automation and internal workflow optimization.
* Participated in system optimization, improving data query performance and operational workflows.
* Engaged in continuous deployment via Azure DevOps, contributing to scalable product delivery.

**EDUCATION & CERTIFICATIONS**

Master’s in Computer Science, Southern Arkansas State University, USA – GPA: 3.6

Certification: Microsoft Certified Azure Developer Associate (AZ-204)