RAMANA RAO AMBORE, FRM

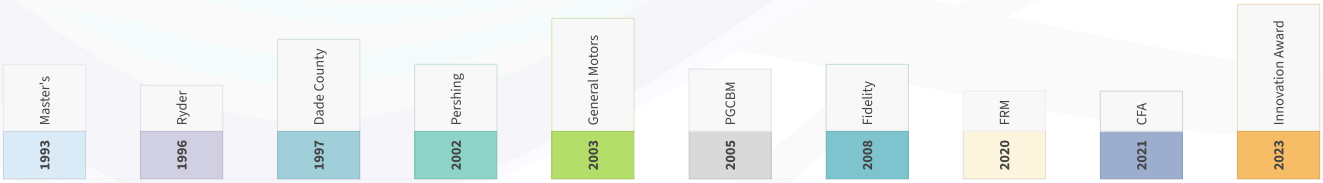
APPLICATION DEVELOPMENT DIRECTOR

Highly accomplished FinTech professional with a strong foundation in quantitative finance, evidenced by an FRM certification and CFA Level 3 candidacy. Proven expertise in modernizing legacy systems, optimizing high-volume trading platforms, and developing sophisticated algorithmic trading solutions. Deep understanding of cloud/distributed technologies, full stack web development, databases, legacy systems, and data analytics. A results-driven professional and recipient of the organization's most coveted Innovation Award, with a demonstrated ability to deliver cutting-edge solutions and drive success within the financial markets.

`No Visa Sponsorship Required, Authorized to work in the U.S. for any employer`

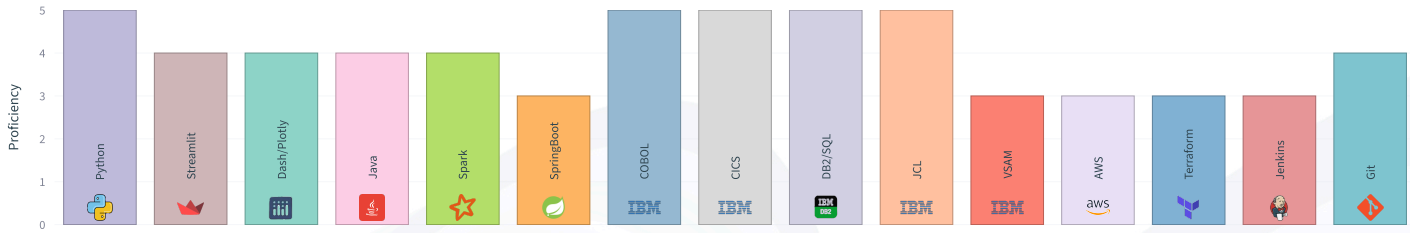
Resume (PDF)
Ramana.Ambore@gmail.com
(515) 525-4636
West Des Moines, Iowa
ramanaambore.me
linkedin.com/in/ambore
github.com/RamanaAmbore
medium.com/@rrambo

Experience Summary



- Modernized a high-volume, business-critical legacy application on AWS using Java and Spark. The resulting core framework reduced development and deployment turnaround times by 50%.
- Developed 'Rambo,' an analytics platform that empowered software development teams to reengineer and optimize software artifacts. By providing critical insights into dependencies, 'Rambo' facilitated the identification and decommissioning of approximately 3,000 batch jobs, significantly improving efficiency.
- Received the Delivery Excellence Award for designing and developing a Python-based product suite to reengineer legacy COBOL-VSAM applications into COBOL-DB2 applications.
- As a Principal Software Engineer, leading the development of the parsing engine for DataSnake & Cobra, a COBOL Research and Analysis tool. This engine tracks data flow, identifies the origin and transformation of critical fields, and enables accurate data lineage analysis.
- Working an algorithmic trading platform leveraging the power of option Greeks and underlying stock prices to identify and exploit fleeting market inefficiencies, enabling automated, data-driven trading decisions.
- Senior Analyst & Full Stack Developer with expertise in end-to-end solution design, data analysis, and application development

Technical Skills



Employment

- NTT DATA Global Delivery Services Ltd., Application Development Director, Apr 2003 - Till Date
- iNautix Technologies India Pvt, Project Leader, May 2002 - Apr 2003
- Modis Consulting, Software Consultant, Nov 1997 Apr 2002
- Matech Systems, Software Consultant, Nov 1996 - Nov 1997
- Dun & Bradstreet Satyam Software, Software Associate, Oct 1994 - Oct 1996

Projects

NTT DATA (delivering solutions for Fidelity for seventeen years)

1. Cloud based Transmission application, Fidelity, Principle Software Engineer, Apr 2003 - Till Date

Led the modernization of a high-volume, business-critical legacy application on AWS, leveraging Java, Spark, and a developed core framework. This significantly improved development and deployment speed, achieving a 50% reduction in turnaround times. Key responsibilities included designing high-volume transmission files, implementing data parsing and validation, and ensuring data consistency with mainframe systems.

Technology: Java, Springboot, Spark, Oracle, AWS, Python, Pandas, GIT, Terraform, Jenkins,

2. Rambo - Rapid Analysis of Mainframe Batch Objects, Fidelity, Principle Software Engineer, Apr 2003 - Till Date

Developed 'Rambo,' an analytics platform that empowered software development teams to reengineer and optimize software artifacts by providing critical insights into dependencies. Responsibilities included identifying metadata sources on software artifacts, organizing and storing the data in a database, creating networkx graph structures with nodes and edges, parsing the data for various use cases with complex SQLs, and presenting data flow diagrams in a visual manner using Python, PyVis, SQL, REXX, and Streamlit.

Technology: Paython, Pandas, Postgres, Networkx, Pyvis, Streamlit, GIT, Jenkins

3. Cobra - COBOL Research & Analysis, Fidelity, Principle Software Engineer, Apr 2003 - Till Date

Leading the team to develop "Cobra," a comprehensive ecosystem specifically designed to address the challenges of modernizing and enhancing legacy COBOL applications. Recognizing the critical role these systems play in many organizations, Cobra aims to equip businesses with the tools and technologies necessary to effectively understand, analyze, and ultimately modernize their existing COBOL codebases. This multifaceted ecosystem will encompass a suite of integrated tools and functionalities, empowering organizations to gain deeper insights into their COBOL applications and explore various modernization pathways.

Technology: Python, Pandas, Regex, Neworkx, Postgres, Pyvis, Streamlit, GIT, Jenkins

4. Legacy Automation, Fidelity, Principle Software Engineer, Apr 2003 - Till Date

Modernized legacy transmission job automation processes within our organization. The primary objective was to replace static job schedules with dynamic job submissions triggered by events or data changes within the CICS environment.

Technology: MVS, COBOL, CICS, JCL, DB2, VSAM, Assembler

General Motors Dealer Information Database (GMDID) Re-engineering Project, General Motors, Project Leader, May 2002 - Apr 2003

Led the re-engineering of the GMDID/DNPS systems, including redesigning the weekly batch cycle and supporting Siebel integration. Developed REXX tools to extract information for creating Functional Specifications. I conducted impact analysis and documented data access issues. I assisted in data retrieval, batch processes, and database issues for Siebel integration. I also created Functional Specifications and project proposals, and managed project planning, scheduling, and monitoring.

Technology: MVS, REXX, JCL, COBOL, IMS, DB2, CICS

iNautix Technologies

Meta Data Services Group, Pershing, Project Leader, May 2002 - Apr 2003

Led the Meta Data Services Group at iNautix, providing offshore support to Pershing for capturing, storing, and presenting mainframe metadata.

Technology: MVS, REXX, JCL, COBOL, DB2, CA-7, Endevor, Platinum/DataShopper, Java, Java Script, DB2 Connect

Modis Consulting

DBS Financials, Dade Country Schools, Software Consultant, Apr 2002 - Nov 1997

Implemented the DBS E-series financial system and developed the Internal Funds system for Dade County Public Schools. The project is to install, customize and implement DBS E-series packages for Dade County Public Schools. The project also involved developing Internal Funds systems and integrating it with DBS E-Series packages

Technology: MVS, COBOL, EasyTrieve, JCL, REXX, CICS, VSAM, FileAid, Xpediter, DCI

Mastech

Ryder On-line Analytical Decision (ROAD) System, Ryder Inc, Senior Software Consultant, Nov 1996 - Oct 1997

Developed and implemented the Ryder On-line Analytical Decision (ROAD) System to support repair shop operations. Ryder On-line Analytical Decision (ROAD) Support System helps in calculating the average number repair hours at the repair shops. The system generates productivity reports and helps in estimating the manpower requirements at various Ryder repair shops

Technology: MVS, COBOL, JCL, REXX, CICS, DB2, VSAM, DCI, IE, Script, Xpediter, SPUFI, FileAid, QMF

Dun & Bradstreet Satyam Software

DBS E-series Year 2000 Conversion Projects, Dun & Bradstreet, Software Engineer, Oct 1994 - Oct 1996

Dun & Bradstreet E-series Government is a suit of mainframe financial packages used by Fortune 500 companies with DB2 as the database management system. The project is to implement the new release of the package that is year 2000 compliant. Worked as a team member to build Design Document for Year 2000 changes and product enhancements for the new release of Purchasing System (PS) Module of DBS E-series products.

Technology: MVS, COBOL, JCL, REXX, CICS, VSAM, DCI, IE, Script, Xpediter, FileAid

Personal Portfolio Projects

Rambo Quant Strategies - Algo Trading for Derivatives

This project aims to develop a sophisticated algorithmic trading platform designed to identify and capitalize on short-term market inefficiencies in option prices. Leveraging the power of Python, Dash, and Plotly, the platform will utilize option Greeks, underlying stock prices, and advanced statistical models to generate robust trading signals and execute trades automatically.

Technology: Python, Streamlit, Pandas, Dash, Plotly, Postgres

Profile Builder

Built a dynamic, professional profile website using Streamlit. This interactive app allows users to easily showcase their skills, experience, and portfolio in a visually appealing format. Streamlit's features and custom JavaScript enable smooth scrolling navigation for an exceptional user experience. It leverages Streamlit's features and custom JavaScript for smooth scrolling navigation.

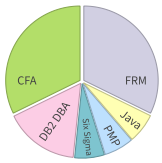
Technology: Python, Pandas, Streamlit

Education

- Master's in Computer Science, J.K. Institute of Applied Physics & Technology, 1993
- PGCBM, XLRI - School of Business, 2005
- Bachelor's in Computer Science, Nagarjuna University, 1991

Certifications

- GARP Certified Financial Risk Manager (FRM), 2022, ID# 502640
- Cleared Certified Financial Analyst (CFA) Level 1 & Level 2 exams, 2018, ID# 8243442
- IBM Certified DB2 DBA, 2003
- Six Sigma Green Belt certification, QAI, 2005
- Project Management Professional (PMP), PMI, 2005
- Sun Certified Java Programmer, 1999



Interests

The hobby project integrated a Raspberry Pi onto a drone to enhance its capabilities beyond basic flight. Challenges include minimizing weight and power consumption, ensuring reliable communication, and developing real-time processing algorithms while addressing the harsh environment. This project provides a rewarding learning experience in drone technology and embedded systems.