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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`

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📝 Experience Summary

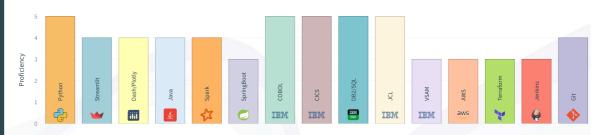| 1993	1996	1997	2002	2003	2005	2008	2020	2021	2023
Master's	Ryder	Dade County	Pershing	General Motors	PGCBM	Fidelity	FRM	CFA	Innovation Award

- 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

Proficiency (0-5 scale):
- Python: 5
- Streamlit: 4
- Dash/Plotly: 4
- Java: 4
- Spark: 4
- SpringBoot: 3
- COBOL: 5
- CICS: 5
- DB2/SQL: 5
- JCL: 5
- VSAM: 3
- AWS: 3
- Terraform: 3
- Jenkins: 3
- Git: 4

🏢 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

> 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

🚀 Portfolio

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

> Additional Information...

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

> Additional Information...

🏫 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, 2020, ID# 8243442

IBM Certified DB2 DBA, 2003

Six Sigma Green Belt certification, QAI, 2005

Project Management Professional (PMP), PMI, 2004

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.

> Additional Information...