

RAMANA RAO AMBORE, FRM

APPLICATION DEVELOPMENT DIRECTOR



Highly accomplished FinTech professional with a strong foundation in quantitative finance, evidenced by 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, database & legacy systems, and data analytics. A results-driven professional, recipient of the organization's most coveted Innovation Award, with a proven ability to deliver innovative solutions and drive success within the financial markets.

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West Des Moines, Iowa

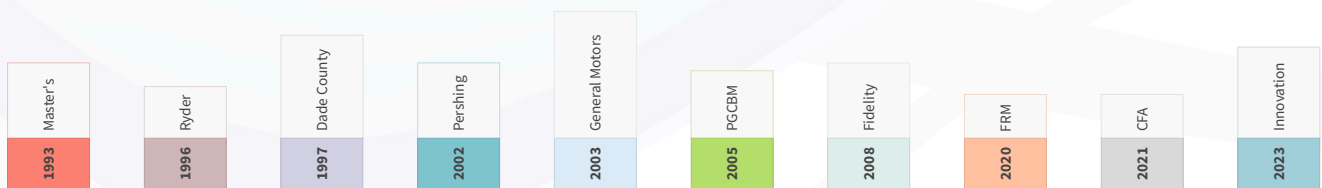
ramanaambore.me

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github.com/RamanaAmbore

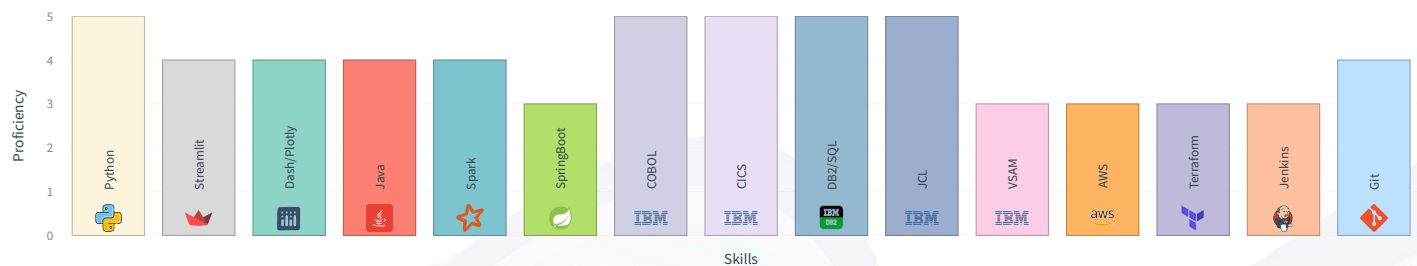
medium.com/@rrambo

Experience Summary



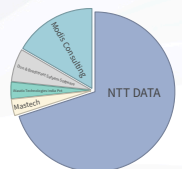
- Modernized a high-volume, business-critical legacy application on AWS using Java and Spark. The resulting core framework reduced development and deployment turnaround times by 50 percent.
- Developed 'Rambo,' an analytics platform that empowered software development teams to reengineer and optimize software artifacts. By providing critical insights into dependencies, 'Rambo' facilitated the identification and decommissioning of around 3000 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 Principal Software Engineer, I'm leading the development of the parsing engine for Cobra, a COBOL Research and Analysis tool. This engine will track data flow, identify the origin and transformation of critical fields, and ultimately enable accurate data lineage analysis.
- Developing an algorithmic trading platform that leverages the power of option Greeks and underlying stock prices to identify and exploit fleeting market inefficiencies, enabling automated, data-driven trading decisions.

Skills



Employment

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



Projects

NTT DATA

1. Cloud based Transmission architecture, Design, Development, 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

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

I led the development of 'Rambo,' an analytics platform that empowered software development teams to reengineer and optimize software artifacts by providing critical insights into dependencies. My 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, Networkkx, Pyvis, Streamlit

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

This project centers around the development of "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

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

The project focused on modernizing 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

As a lead, I prepared program logic documents and functional specifications, and created project proposals for GMDID/DNPS systems. I 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 iNautix Technologies India Pvt

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

Meta Data Services group of iNautix provides offshore support to the parent company – Pershing to capture, store and present the Meta Data related to mainframe source code using Platinum Repository and DataShopper

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

modis Modis Consulting

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

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

IGATE Mastech

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

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

Cognizant 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



RAMANA RAO AMBORE, FRM APPLICATION DEVELOPMENT DIRECTOR



Financial Risk Manager (FRM) and Chartered Financial Analyst (CFA) Level 3 candidate with in-depth financial domain knowledge. As a FinTech expert, I bring hands-on experience in driving legacy system re-engineering and modernization, and optimizing high-volume trading and data transmission platforms. Successfully developed an algorithmic trading platform to capitalize on market inefficiencies. Proficient in leveraging cloud technologies, mainframe systems, data analytics, and agile methodologies to deliver innovative solutions. My first mainframe user ID and nickname, 'Rambo', reflect my unwavering tenacity in tackling complex challenges head-on.

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A dynamic, professional profile website built with Streamlit. This app is designed to showcase your profile, skills, experience, and portfolio in a visually appealing and interactive format. It leverages Streamlit's features and custom JavaScript for smooth scrolling navigation.

Technology: Python, Pandas, Streamlit

Additional Information...

RRambo Trader - Algo Trading for Derivatives



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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, Pandas, Dash, Plotly

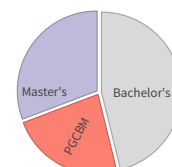
Additional Information...

Education

Masters in Computer Science, J.K.Institute of Applied Physics & Tech., 1993

PGCBM, XLRI - School of Business, 2005

Bachelors in Computer Science, Nagarjuna University, 1991



Certifications

GARP certified Financial Risk Manager (FRM), 2022, GARP ID# 502640

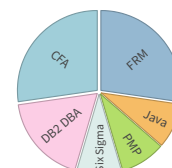
Cleared Certified Financial Analyst (CFA) Level 1 & Level 2 exams, 2020, ID# 8243442

IBM Certified DB2 DBA, 2003

Six Sigma Green Belt certification, QAI, 2005

Project Management Professional (PMP), PMI, 2004

Sun Certified Java Programmer, 1999



Hobbies

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...