380 Boxwood Drive   **YAO (MICHAEL) RAO**   (646)-240-1135

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EDUCATION

Stony Brook University, Stony Brook, NY   September 2012 – December 2016
- Double Major in Computer Science and Applied Mathematics and Statistics   Major GPA: 3.14
- Honors*:* Dean's List   Fall 2013, Spring 2013, Fall 2014, Spring 2014

College Coursework: Software Engineering, Systems Fundamentals, Analysis of Algorithms, Wireless and Mobile Networking, Artificial Intelligence, Machine Learning, Computer Networks, Databases, Calculus I-IV

SKILLS

- Proficient in Java, DB2, Teradata, C#, .NET, WPF, UNIX, C, and Autosys
- Experienced in Sybase, XML, JavaScript, JQuery, HTML, MySQL, MIPS, Git

EMPLOYMENT

Senior Full-Stack Developer   **Morgan Stanley**   **March 2017 – March 2022**

General Ledger Integration
- Led WM Financial Technology team to decommission **Shareworks, Eaton Vance, E*TRADE** General Ledgers and Subledgers by designing and integrating automated journal processing using Teradata, Shell Scripting, in-house ETL, SQL Scripting and Autosys
- Designed and built C# .NET WPF for **Shareworks** to provide central hub for modifying and importing data and approval-based journal posting process

Manual Automation Delivery (MAD)
- Led WM Financial Technology team to fully automate monthly journal processing and eliminate EUC
- Designed and implemented automation with logging, archiving and dynamic notifications using Teradata, in-house ETL, Shell Scripting, SQL Scripting and Autosys

Retail Inventory Application (RETINA)
- Eliminated EUC by implementing C# .NET WPF on top of in-house framework and provided users with a central hub for maintenance, adjustments and financial reporting
- Built DB2 Stored Procedures to communicate with Java Services and compute Balance Sheet and Profit & Loss for financial reporting
- Enforced Agile methodology in Git by applying continuous development, trunk-based development, continuous integration, continuous deployment and constant communication with clients

Financial Advisor Notes (FANs)
- Redesigned and implemented ASP.NET user interface to provide better user interaction
- Reduced human errors by implemented server-side and client-side validations in .NET and JavaScript

TECHNICAL EXPERIENCE

Sole Developer   **MapReduce**   **2016**
- Implemented multithreaded data analysis program in C based on the MapReduce programming model

Lead Programmer   **SPComics (Web Application)**   **2015**
- Directed a team of four in developing a comic web application for content creation, reading and sharing
- Designed and developed Comic Page and Reading Page that monitors the user's reading and comic history using JavaScript and JQuery to optimize user experience
- Implemented Comic Creation Page with savable tools in JavaScript, JQuery and Google Datastore

Sole Developer   **Journey Through Europe**   **2014**
- Created UML Diagrams as framework and foundation for the board game Journey Through Europe
- Designed and implemented Graphic User Interface with interactive map of Europe in Java and HTML
- Developed AI with customized Dijkstra's Algorithm that finishes the game in minimal steps