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Shirley, NY 11967

**YAO (MICHAEL) RAO**  
U.S. Citizen

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## **EDUCATION**

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*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**

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

## **EMPLOYMENT**

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**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 WPF plugin 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# WPF plugin 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**

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**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