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

Shirley, NY 11967   U.S. Citizen   cn.yrao@gmail.com

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, C#, .NET, WPF, DB2, Teradata, UNIX, Git, Python, Flutter, TypeScript, MongoDB, NodeJS, Express, AWS
- Experienced in C, Sybase, JQuery, HTML, MySQL, MIPS, Autosys

EMPLOYMENT

Owner, Developer   **Progressive Overflow**   **April 2023 – Current**

- Designed and built an Offline-first mobile application aimed to provide a workout planner and tracker leveraging Flutter, Realm and MongoDB Atlas
- Designed and built additional Online capabilities such as forum and coaching using Flutter as the frontend backed by NodeJS, Express, AWS with MongoDB on the Database side

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 with MVVM framework 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

OTHER TECHNICAL EXPERIENCE

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