RAFFI MENDOZA

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EDUCATION

B.S. Computer Science — Syracuse University — *Graduated May 2022*

- Data Structures
- Discrete Mathematics
- Social Media & Data Mining
- Software Specification and Design
- Intro to Artificial Intelligence
- Web System Architecture & Programming
- Linear Algebra
- Analysis of Algorithms
- Probability and Statistics
- Software Implementation
- Operating Systems
- Access Control, Security, and Trust

EXPERIENCE

General Motors | Warren, Michigan — *January 2023 — August 2024*
Software Engineer – Systems Manufacturing Security

- Established and initiated change records to complete patching for 12000~ Windows & Linux servers monthly, achieving **over 95% security fitness**
- Refactored automated scheduling update tool to access libraries in Python3, improving error-handling with Selenium & enhancing GUI readability
- Coordinated non-prod Promote-to-Production activation to ensure NoSQL, PostgreSQL, ESX/ESXi servers are correctly identified via Azure DevOps
- Compiled list of redundancies to streamline tech stack and optimize timelines during patch cycles resulting in **20% reduction** in manual effort

COMET Informatics | Rochester, NY Area — *June 2021 — October 2021*
Software Engineer Intern – Internal Logging

- Participated in cross-functional team with focus on migrating from .NET Framework 4.5v (COMET02) to .NET Core 2.2v (COMET03) with EF Core 2
- Handled and reduced errors found in multiple instrument applications from Production/Testing/Staging within COMET02 for current clientele
- Modified Logging API to run exceptions after a failed HTTP request occurs and implemented angular interceptor to catch and log requests

Martin J. Whitman School of Management | Syracuse, NY — *September 2021 — May 2022*
Technology Services Consultant

- Administered technical support to prestigious business school for **over 2000~ students and staff** both walk-in and over-the-phone utilizing Salesforce
- Resolved underlying issues both software and hardware specializing in Excel, Certified Dell repairs, and related problems with a derived solution
- Promoted and maintained COVID-19 safety guidelines, policies, and the conditions of accessible equipment within three IT service locations

SELECTED PROJECTS

Access Control System — *April 2022 — May 2022*

- Devised embedded system project that would substantially improve lab room security and management for staff using RFID cards and RC522 Module
- Identified **7 subsections** that represent key components to satisfy our goal to achieve automating daily attendance records for end users
- Conducted user testing by mapping arrays of metadata to RFID card to represent both authenticated/unauthenticated individuals' to be printed on LCD

Embedded Smart Sensor — *March 2022 — April 2022*

- Demonstrated understanding of interfacing Arduino's real time IO to Raspberry Pi to perform DSP solutions including acceleration and force
- Designed identical data packets to translate detected acceleration and force sensor inputs from Arduino to RPi after orientation is shifted

React JS Shopping Cart — *November 2021 — December 2021*

- Instituted eCommerce proposal utilizing MERN technology stack to develop dynamic single page web application to purchase products listed
- Managed team by creating weekly backlog of requirements for final demonstration and oversaw technical shortcomings during weekly meetings

Twitter Sentiment Analysis — *April 2021 — May 2021*

- Pioneered experimental research with a small team to efficiently collect and perform positive or negative sentiment results on user tweets that are distributed into three sample groups related to topics such as Vaccine/Masks, Police/Social issues, and U.S. Presidential election of 2020
- Reduced collection time to an average of **2 Minutes per name** with optimized python analysis script using Rest API, PyTorch, and Transformer library
- Data mined **250,000 tweets** from twitter users named "Karen" and 24 other common female names group and translated positive tweet percentage overall (including sample names) into visual bar graph: Karen resulting an overall **46.6% positive rating (2nd out of 25 sampled names)**

Pet Renter Web Application — *February 2021 — April 2021*

- Conducted stand-up meetings as scrum master with small team to review completed and uncompleted tasks and to update burndown chart
- Utilized Java WTP for web development and integrated multiple web services synced with customer database with JSP files, MySQL, and JDBC
- Administered and organized **50+** sprint backlogs under login/register, view pet listings, pet details, cart, and order details within scrum board

Parking Locator (Design Document) — *October 2020 — December 2020*

- Designed identical data packets to translate detected acceleration and force sensor inputs from Arduino to RPi after orientation is shifted
- Applied information using SRS Document derived from requirements team, and improved original class diagram design by aggregating both the old and new customer class to restore functionality and translated into detailed functional specifications for implementation team to comprehend
- Defined **35 method specifications and contracts** to describe the functionality of multiple associatively defined classes

RELEVANT SKILLS

Programming Languages: Java, HTML, CSS, JavaScript, Python, C/C++, C#, R, Julia, SQL, Bash
Experience with: Project Management, Full Stack Development, Data Analysis, Elastic Beanstalk, Heroku, Entity Framework Core 2, Git, Azure DevOps
University Involvement: Multicultural Affairs WellsLink Leadership Program, Syracuse University Boxing Club, Filipino Student Association
Hobbies/Interests: Boxing, Fencing, Cross Country, Powerlifting, Bodybuilding, Music, Fashion, Cooking, Traveling, Video Games, Videography