

RAFFI MENDOZA

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EDUCATION

B.S. Computer Science	Syracuse University	<i>Graduated May 2022</i>
<ul style="list-style-type: none">o Data Structureso Discrete Mathematicso Social Media & Data Miningo Software Specification and Designo Intro to Artificial Intelligenceo Web System Architecture & Programming	<ul style="list-style-type: none">o Linear Algebrao Analysis of Algorithmso Probability and Statisticso Software Implementationo Operating Systemso Access Control, Security, and Trust	

EXPERIENCE

General Motors Warren, Michigan <i>Software Engineer – Systems Manufacturing Security</i>	<i>January 2023 — August 2024</i>
<ul style="list-style-type: none">• 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	
Martin J. Whitman School of Management Syracuse, NY <i>Technology Services Consultant</i>	<i>September 2021 — May 2022</i>
<ul style="list-style-type: none">• 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	
COMET Informatics Rochester, NY Area <i>Software Engineer Intern – Internal Logging</i>	<i>June 2021 — October 2021</i>
<ul style="list-style-type: none">• 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	

SELECTED PROJECTS

Access Control System	<i>April 2022 — May 2022</i>
<ul style="list-style-type: none">• 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	<i>March 2022 — April 2022</i>
<ul style="list-style-type: none">• 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	<i>November 2021 — December 2021</i>
<ul style="list-style-type: none">• 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	<i>April 2021 — May 2021</i>
<ul style="list-style-type: none">• 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	<i>February 2021 — April 2021</i>
<ul style="list-style-type: none">• 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)	<i>October 2020 — December 2020</i>
<ul style="list-style-type: none">• 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