RAFFI MENDOZA

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EDUCATION

Syracuse University 2018 – 2022
B.S. Computer Science

Data Structures | Linear Algebra | Discrete Mathematics | Analysis of Algorithms | Social Media & Data Mining | Probability & Statistics | Software Specification & Design | Web System Architecture & Programming | Operating Systems | Access Control, Security, & Trust

EXPERIENCE

General Motors | Warren, MI January 2023 – August 2024
Software Engineer – Systems Manufacturing Security

- Facilitated monthly manufacturing patching for 12,000+ Windows/Linux servers, reaching **95% security fitness** based on successful reboots during Downtime Period. Preventing concurrent and future outages at global vehicle & battery production lines, to hit company quarterly goals
- Refactored automated scheduling tool to optimize efficiency, cutting out **80% manual workload** and improving tool debugging process
- Managed Promote-to-Production activation for NoSQL, PostgreSQL, & ESX/ESXi servers to ensure accurate identification via CMDB/ITSM

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

- Provided tech support for 2,000+ students and staff, specializing in Excel and certified Dell repairs, and utilizing Salesforce to track requests
- Promoted COVID-19 safety protocols, ensuring accessibility and quality of all IT equipment across three service locations

COMET Informatics | Rochester, NY June 2021 – October 2021
Full-Stack Software Engineer Intern – Internal Logging

- Assisted in migrating .NET Framework 4.5 to .NET Core 2.2 using EF Core, by **reducing 20 application errors** during transitional period
- Developed Angular interceptor for Logging API, **improving debugging process by 30%** by capturing and logging HTTP request exceptions

SELECTED PROJECTS

Access Control System | ***RFID, Arduino, Python*** April 2022 – May 2022

- Built RFID-based embedded system for lab security and automating daily staff attendance tracking, using RFID cards and RC522 Module
- Outlined 7 key components to satisfy goal of achieving full automation of student and staff attendance records
- Mapped RFID metadata for authentication, with LED blinker to visualize authorization, and displaying results on an LCD after user testing

Embedded Smart Sensor | ***Arduino, Raspberry Pi*** March 2022 – April 2022

- Linked Arduino's real time I/O intreface with Raspberry Pi for Digital Signal Processing on acceleration and force measurements
- Designed identical data packets to translate detected acceleration and force sensor inputs from Arduino to RPi after orientation is shifted

React JS Shopping Cart | ***MERN Stack*** November 2021 – December 2021

- Developed an eCommerce proposal using the MERN stack to create a dynamic single-page web application to purchase convenient products
- Led a small team, organized weekly backlogs, and tackled technical challenges during meetings, with a focus on building React Components

Twitter Sentiment Analysis | ***Python, PyTorch, REST API*** April 2021 – May 2021

- Performed sentiment analysis on 250,000+ tweets to confirm "Karen" Archetype based on COVID-19, social issues, and 2020 U.S. election
- Optimized Python script to reduce data collection time to **2 minutes per sample**, efficiently gathering sentiment tweets for 25 sample names
- Translated results into visual graphs to showcase overall sentiment ratings with Karen resulting with an overall 46.6% positive rating

Pet Renter Web Application | ***Java, JSP, MySQL, JDBC*** February 2021 – April 2021

- Facilitated stand-up meetings as scrum master, tracking progress and updating burndown charts during each one week sprint
- Utilized Java WTP for web development to integrate web services synced with a customer database using JSP files, MySQL, and JDBC
- Streamlined project management by organizing and maintaining 50+ sprint backlogs for core features such as login/register, pet listings, and order details in Kanban Board, with each to be completed at the deployment phase, improving sprint efficiency and team productivity

Parking Locator (Design Document) | ***Arduino, SRS Document, UML*** October 2020 – December 2020

- Enhanced class diagram design by merging legacy and new customer classes, using SRS document requirements to restore functionality
- Defined 35 method specifications and contracts to outline class functionality and interactions

RELATIVE SKILLS

Programming Languages: Java, Python, C/C++, C#, Kotlin, Swift, R, SQL, Bash, HTML/CSS, JavaScript, Julia
Experience With: Full Stack Development, Change Management, Data Analysis, Agile, AWS (EC2/S3, Elastic Beanstalk), 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