RAFFI MENDOZA

mendozaraffi@gmail.com │ Randolph, NJ │ linkedin.com/in/jose-raphael-m │ 973-580-7392 │ raffimendoza.github.io

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

SOFTWARE ENGINEERING 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, contributing to 2.6 million vehicles produced in 2023, **+14% Year-Over-Year**, and a record **4.16% increase** in vehicle sales from the previous year 2022
- Refactored automated scheduling tool to optimize efficiency by pulling multiple API points to update to the correct version of Chrome Driver based on local Chrome Browser version, cutting out **60% manual maintenance** and improving tool debugging process
- Managed Promote-to-Production activation for NoSQL, PostgreSQL, & ESX/ESXi servers to ensure accurate identification via CMDB/ITSM

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

MANAGEMENT EXPERIENCE

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

Every Nation Church NJ │ Dover, NJ   April 2014 – August 2021
Media and Sound Operator Volunteer
- Managed a dedicated team of audio and media tech volunteers to maintain an engaging and professional experience for 60+ church members
- Advocated technological upgrades such as sound & monitor systems, cost-effective computer specifications, and energy-saving protocols

SELECTED PROJECTS

WeatherOrNot (Study Tool) │ *Single-Page Application*   July 2024 – September 2024
- Pioneered centralized study tool hub hosted in web application that features: Pomodoro Timer, Task List, and Spotify Web Player
- Propelled by Work-From-Home environment, leverages WeatherAPI and Spotify Web API to dynamically adjust background sounds and personalized playlists based on user-selected location, creating a seamless, weather-based audio experience

Running Tracker │ *Spring Boot, REST API*   January 2023 – February 2023
- Developed a dynamic Spring Boot web application, that tracks user's running logs. Features RESTful APIs for handling CRUD operations, implementing best practices in data validation and efficient query optimization to communicate between application and SQL DB
- Integrated client-side with authentication for security, leveraging correct data mapping with Thymeleaf and MySQL for robust user experience

Access Control System │ *RFID, Arduino, C++*   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, C++*   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 │ *Agile, 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 scripts computation time from (**15 to 2 minutes per sample**), efficiently gathering sentiment tweets from 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

RELATIVE SKILLS

Programming Languages: Java, Python, C/C++, C#, Groovy, 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, React Native
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