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

SOFTWARE ENGINEERING EXPERIENCE

General Motors | Warren, MI   January 2023 – August 2024
Systems Engineer – Change & Release Management

- Led monthly patching for 12,000+ Windows/Linux servers, achieving >**95%** security compliance for 2023. Minimizing vulnerabilities and outages in global vehicle & battery production. **50+ Change Records (CR)** created, improving planning & approval process for XFNs
- Oversaw production deployments for SQL/NoSQL & ESX/ESXi servers, ensuring accurate asset tracking and compliance via CMDB/ITSM
- Optimized automated CR scheduling tool by enhancing UI/UX, on-boarding documentation, and integrating multiple API endpoints to systematically update Chrome Driver to the most current release, streamlining workflows to reduce manual upkeep and debugging process

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

- Assisted cross-functional team with focus on migrating from .NET Framework 4.5v (COMET02) to .NET Core 2.2v (COMET03) with EF Core 2
- Handled **20+ errors** found in multiple instrument applications from Production/Testing/Staging within COMET02 for current clientele
- Developed Angular interceptor for Logging API, resulting in a **30% improvement** for debugging process by 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 tickets
- 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

- Managed a dedicated team of audio and media tech volunteers to maintain an engaging and professional experience for 60+ attendees
- Advocated technological upgrades such as sound & monitor systems, cost-effective computer specifications, and energy-saving protocols

SELECTED PROJECTS

WeatherOrNot (Study Tool)   July 2024 – September 2024

- Pioneered centralized study tool hub hosted in singe-page 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   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   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   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   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   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 model computation time from (**15 to 2 minutes per sample**), efficiently gathering sentiment tweets from 26 sample names
- Translated results with PyTorch to showcase overall sentiment ratings with Karen resulting with an overall 46.6% positive rating

Pet Renter Web Application   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 **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 corresponding 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, Literature, Videography