MATHEW JAMES MUYCO

SOFTWARE DEVELOPER

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Innovative Software Developer with a passion for crafting elegant and efficient solutions to complex problems. Solid foundation in software engineering principles and a keen eye for detail and delivers a wide range of projects, Proficient in multiple programming languages and frameworks and thrives in fast-paced, collaborative environments. Leverages creativity and technical expertise to drive projects forward. Committed to continuous learning and improvement, and eagerly tackles new challenges and makes meaningful contributions to innovative software initiatives.

TECHNICAL SKILLS

Languages: C#, C, C++, Java, Python, PHP, Assembly, Javascript
Frameworks: .NET Core, React, Angular, Laravel, NextJS, TailwindCSS, Bootstrap, Jest
Databases: T-SQL, MySQL, PostgresSQL, MongoDB
DevOps: Git, CI/CD, Docker, Jenkins
Mobile: Kotlin
Machine Learning: Tensorflow, Pytorch
Cloud: Azure, GCP, Netlify, Firebase

PROFESSIONAL EXPERIENCE

Golden Suntec Solutions Inc.   **Ortigas Center, MM**
C# Developer   **Jul 2024 - Present**
- Led the design and development of a company-wide QA project management app using C#, .NET, & ReactJS, improving productivity and automation in QA processes.
- Developed web application modules for various company projects, including transactional and prerequisite systems, ensuring high performance and scalability.
- Utilized agile methodologies to deliver timely updates and features, ensuring the application met evolving business requirements and resolved technical challenges.

Lamina Studios LLC.   **Spokane, WA (Remote)**
C# Game Developer Intern   **Aug 2023 - Sep 2023**
- Developed and optimized multiple game features using Unity with C#, improving functionality and performance.
- Refactored and restructured the codebase, aligning with industry best practices. Collaborated with cross-functional teams, including artists and developers, to enhance real-time processing and game mechanics.
- Conducted code evaluations and debugging to identify optimization opportunities and improve application efficiency.

RELEVANT PROJECTS

Rail Detect - Railway Breakage Detection System   **Sep 2023 - Feb 2024**
Technologies: ReactJS, YOLOv8, Python, AI/ML, Computer Vision, Data Augmentation
- Developed an AI-powered real-time railway breakage detection system using YOLOv8 & ReactJS, enhancing safety and efficiency in railway operations.
- Achieved 97% accuracy in detecting hairline cracks, outperforming VGG-16, ResNet-50, and InceptionV3 in challenging real-world conditions (brightness, noise, blur).
- Implemented data augmentation techniques (Gaussian blur, noise, brightness variation) to improve model robustness and reliability.
- Deployed a Progressive Web Application (PWA) on Netlify, ensuring scalability, offline functionality, and seamless user experience.

Automated License Plate Detection   Jul 2023 - Jan 2024
Technologies: YOLOv8, Python, OCR, Canny Edge Detection

- Developed an AI-powered license plate detection system using YOLOv8 with Canny Edge Detection and OCR, enhancing accuracy in detecting blurry characters.
- Improved real-time license plate recognition by integrating image preprocessing techniques, ensuring robust detection in low-quality images.

SPID - Investor Article Summarization App   Feb 2023 - Feb 2023
Technologies: Java, Kotlin, Sentiment Analysis, NLP, Python

- Implemented sentiment analysis and NLP algorithms using Java & Kotline in a mobile application to provide AI-driven business article summaries for quick media consumption.
- Optimized text summarization models to generate concise and meaningful insights, enhancing user engagement.

Job Tracking App | Web Application   Mar 2024 - Present
Technologies: ReactJS, .NET Core, Azure, C#

- Developed key features and modules for the application, ensuring alignment with project requirements.
- Designed and managed application DB using Azure SQL Database, ensuring around the clock performance and reliability.
- Built backend systems with C# .NET Framework to support application functionality.
- Implemented highly responsive features and modules using React SPA.

LEADERSHIP AND ACTIVITIES

Google Developer Group (GDG) Manila
                                                                        January 2024– Present

- Engaged in technical workshops and developer meetups to stay updated with industry trends.
- Collaborated with professionals on software development best practices, cloud technologies, and innovative solutions.

CCIS Student Council   Sta. Mesa, MNL
Junior Council Officer   October 2023 – October 2024

- Assist in the planning and organization of student council events, activities, and projects.
- Participate in council meetings, contribute ideas, and assist in decision-making processes.
- Collaborate with other council members to address student concerns and issues.
- Help manage and disseminate information to students through various communication channels.

EDUCATION

Bachelor of Science in Computer Science   Oct 2020 - Oct 2024
Polytechnic University of the Philippines, Main Campus

- Thesis on "Detection of Breakage over Railway using YOLOv8 Model".

ADDITIONAL INFORMATION

- **Languages:** Filipino, English
- **Certifications:** IBM AI Fundamentals, IBM Cybersecurity Fundamentals, IBM Data Fundamentals,
- **Awards/Activities:** Employee Supportive Superstar Awardee, President's Lister (2020 - 2024), Cum Laude