Matthew Gallardo

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Education

Polytechnic University of the Philippines Manila, Philippines

Bachelor of Science in Computer Science 2020 – 2024

- Consistent President Lister
- CHED and Quezon City Youth Development Scholar

Experience

Software Engineering Intern Aug. – Sept. 2023

BAYTECH BPO CORPORATION Pasig, Metro Manila

- Collaborated on optimizing the frontend, focusing on user experience and performance.
- Developed unit and automation tests with Jest and Playwright for improved project efficiency and reliability.
- Implemented Docker for efficient containerization, enhancing deployment processes.

Projects

SOFTWARE DEVELOPMENT:

Cast Type | *React, Node.js, MongoDB, Express.js, Styled Components, Redux*

- Developed a full-stack web application for mechanical keyboards using React, Express (Node.js), and MongoDB.
- Utilized Styled Components for enhanced UI design.
- Implemented state management with Redux for optimal performance.

Open-Source Freedom Wall | *React, Node.js, MongoDB, Express.js, Context API*

- Developed a MERN Full stack Freedom Wall website for CS students.
- Implemented React Hooks and Context API for efficient state management and optimized user experience.

EasyPC DBMS | *Java Swing, MySQL, Database Management System*

- Developed a Java-based Inventory and Point of Sale (PoS) system for EasyPC.
- Implemented a Java Swing GUI for seamless user interaction.
- Utilized MySQL for backend database management, enabling efficient inventory tracking, product management, and sales processing.

MACHINE LEARNING:

Illuscan | *GAN Models, Local Binary Pattern, Discrete Wavelet Transform, Support Vector Machine*

- Undergraduate thesis about GAN-generated Image (AI Image) detection using novel spatial-frequency domain fusion approach.
- Developed a method combining Discrete Wavelet Transform (DWT) in the frequency domain with Local Binary Pattern (LBP) in the spatial domain.
- Employed Support Vector Machine (SVM) as a classifier.

CAMANAVA Regression | *Multiple-Linear Regression Model, Prediction and Forecast Model, Tkinter*

- Machine Learning model that predicts and forecasts temperature in Caloocan, Malabon, Navotas, and Valenzuela using Multiple-Linear Regression.
- Trained with atmospheric pressure, humidity, cloudiness, weather condition, and wind speed as predictors.

Technical Skills

Languages: JavaScript, Python, Java, C
Frameworks/ Libraries: React., Vue, Express., Node.js, Jest., HTML5, CSS3, pandas, NumPy, Matplotlib
Database: MySQL, MongoDB
Developer Tools: Git, Postman, VsCode, Google Collab, Jupyter Notebook, Android Studio, Docker, Playwright
Certifications: DICT-ICT018-Basic Level of Software Engineering, DICT-ICT013-Intermediate Level of Software Engineering, DICT-ICT017-Advanced Level of Software Engineering