

JOHN PATRICK SALANGSANG

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EDUCATION

HOLY ANGEL UNIVERSITY

Angeles City, Pampanga
2025

Bachelor of Science in Computer Science

Cumulative GWA: 1.21; Academic Honor Student

Relevant Coursework: Data Analysis, Software Development, Operating Systems, Algorithms, Artificial Intelligence, Machine Learning, Blockchain, Automata, Database Management

WORK EXPERIENCE

CLARK OUTSOURCING

Clark Freeport Zone, Pampanga
Dec 2025 – Mar 2025

Full Stack Developer Intern

- Contributed to the development and maintenance of the company's HRIS web application.
- Utilized Angular for frontend development, creating dynamic and responsive UI components.
- Implemented backend functionalities using Lumen Laravel to support data management and user operations.
- Managed MySQL database operations, ensuring efficient data storage and retrieval.
- Debugged and resolved issues across both frontend and backend environments to enhance application performance.
- Collaborated in testing APIs using Postman, ensuring proper integration between frontend and backend.

UNIVERSITY PROJECTS

KAAuth: Counterfeit Detection Application for Philippine Peso Banknote using Image Processing through Convolutional Neural Network

2025

- Developed a mobile application using Flutter and Dart to detect counterfeit Philippine peso banknotes.
- Integrated TFLite for the deployment of a deep learning model, leveraging the Xception Convolutional Neural Network (CNN) architecture for accurate banknote classification.

SKIMATA: Web Application for Visualization of CPU and Memory Management Algorithms

2024

- Co-developed a web application that visualizes various CPU and memory management algorithms, contributing specifically to the implementation of the Non-Preemptive Priority CPU Scheduling Algorithm.
- Utilized JavaScript, HTML, and CSS to build both the frontend interface and backend logic, providing an interactive and educational tool for understanding system processes.

System Analyser: Web Application for Predicting the Estimated Relative Performance of Computer Hardware using Multiple Linear Regression

2024

- Designed a web-based platform using Flask framework for backend processing and multiple linear regression to predict hardware performance based on input parameters.
- Developed the frontend using HTML, CSS, and JavaScript, while employing Python for data analysis and model predictions, providing users with insights into relative hardware performance.

Gaming Equipment Rental Computer Application using JavaFX for GUI

2023

- Built a desktop application with a user-friendly interface using JavaFX and SceneBuilder for renting gaming equipment, incorporating full CRUD operations.
- Employed MySQL database hosted on XAMPP for data storage, handling equipment rentals and management efficiently.
- Developed using Apache NetBeans IDE, ensuring seamless integration between frontend and backend components.

ADDITIONAL

Technical Skills: Full Stack Software Development, UI/UX Design, Machine Learning, Data Analysis, Academic Writing, Database Management, Cloud Computing, Version Control

Programming Languages: Python, Javascript, HTML, CSS, Dart, Java, SQL, Solidity, Typescript, PHP

Frameworks and Technologies: Flutter, NodeJS, Flask, JavaFX, Git, MySQL, Angular, Lumen Laravel, Postman