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Jestaly Joseph Castillo

Software Engineer

EDUCATION

Pamantasan ng Lungsod ng Pasig (State University of Pasig)

B.S. Computer Science

- Dean's Lister and President's Lister (GWA: 1.50)

EXPERIENCE

Software Engineer Intern | *Land Registration Systems Inc.* Sept 2025 – Sep 2026

- Engineered a centralized Project Management Dashboard using Next.js, Express.js, Flask, and Pandas, enabling project managers to monitor work plans, analytics, and project progress from a single platform.
- Developed and maintained RESTful APIs and backend controllers using Express.js to support dashboard functionalities and internal services.
- Integrated Inflectra SpiraPlan and Google Sheets APIs to automate data retrieval and analytics across 27+ active projects for internal reporting.
- Designed and implemented a Company Portal that centralized project documentation and work plan management for cross-functional teams.
- Automated weekly Excel/CSV data aggregation using Python Pandas, reducing manual report preparation by 85%.

Freelance Full Stack Developer | *Part Time* Oct 2024 – Mar 2026

- Delivered custom desktop and web applications for multiple clients from requirements gathering through deployment.
- Developed Kofei, a full-stack e-commerce platform supporting product catalog management, shopping cart, and online ordering.
- Built Spendlite, a desktop finance management application with transaction tracking and financial reporting features.
- Engineered LostFinder, a web-based lost and found management platform with user-friendly item reporting and search capabilities.

PROJECT HIGHLIGHTS

Project Management Dashboard Sep 2025 – Sep 2026

Project Analytics & Reporting Dashboard

- Designed and developed a project analytics dashboard integrating Kanban boards, work plans, and automated reporting to monitor 27+ active projects.
- Engineered backend data processing workflows using Express.js, Flask, and Pandas to automate Excel/CSV aggregation, reducing manual report preparation by approximately 85%.
- Designed system architecture, API workflows, and data flow diagrams using Draw.io to improve collaboration among project managers and cross-functional development teams.
- Optimized reusable frontend components in Next.js, reducing code duplication across dashboard modules and improving maintainability.

Project Management Portal Oct 2025 – Sep 2026

Project Documentation & Project Tracking Portal

- Developed a centralized Project Management Portal that consolidated project documentation, work plans, and team resources for 27+ active projects during the 2025–2026 development cycle using Next.js and Flask.
- Integrated the Google Sheets API to automatically synchronize sprint work plans and project schedules.
- Designed and implemented RESTful APIs for project document management, sprint tracking, and team collaboration, enabling seamless communication between the portal, Google Sheets API, and frontend services.
- Engineered a dynamic Gantt chart that automatically visualized sprint timelines as project milestones were completed.

PredictaBoard AI Aug 2025 – Sept 2025

Technical Analysis Tool for Stocks Trading

- Built a stock analysis platform that evaluates historical market data using multiple machine learning regression models.
- Engineered a data pipeline using yfinance, Pandas, and Scikit-learn for automated data preprocessing and feature engineering.
- Evaluated regression models using GridSearchCV, Mean Squared Error (MSE), and R^2 Score to identify the best-performing model.

MediRehab AI **Sept 2025 – Dec 2025**

Computer Vision-Based Rehabilitation Exercise Monitoring System

- Built a medical tool to assist PWDs, elderly people, injured people, or any person that requires medical attention. It rehabilitates their posture using small physical movements tasked by the application.
- Trained an LSTM Model using the aggregated body points from MediaPipe Pose which tracks body landmarks of a person then analyzes its body posture captured from the camera.
- Developed an application with CRUD operations and a computer vision as a main feature using Full stack Next.js and Flask as data processing.

Kofei **Apr 2025 – Aug 2025**

Donut & Coffee Ecommerce Web Application

- Collaborated with a team of four developers to build a full-stack e-commerce platform for a donut and coffee business.
- Implemented shopping cart, inventory management, and order processing using PHP, JavaScript, MySQL, HTML5, CSS, and Bootstrap.
- Integrated the PayMongo API to support secure GCash cashless payments.

CredCheck AI **Jul 2025 – Sep 2025**

AI Powered News Credibility Checker

- Developed a fake news detection system using Logistic Regression and TF-IDF Vectorization.
- Built a machine learning pipeline for preprocessing, feature extraction, model training, and prediction.
- Evaluated classification performance using Scikit-learn metrics and model selection techniques.

AWARDS AND CERTIFICATIONS

- Linux Essentials
- AWS AI Practitioner Challenge
- Python Data Fundamentals
- Software Engineer Intern HackerRank
- Dean's Lister & President's Lister (GWA: 1.50)

SKILLS

Languages:	Python, Java, JavaScript, TypeScript, PHP
Backend:	Node.js, Express.js, Flask, FastAPI, Prisma ORM
Frontend:	React.js, Next.js, Bootstrap, Tailwind CSS
Databases	PostgreSQL, MySQL
Methodologies:	Agile (Scrum)
Machine Learning:	TensorFlow, Keras, Pandas, NumPy, Scikit-learn
Developer Tools:	AWS EC2, Amplify, AWS RDS, AWS CloudWatch, Git, GitHub, Docker, Docker Hub, Linux, Postman, Bruno, Jira, Figma, Draw.io, Google Sheets API, Inflectra, n8n, Claude, Stitch, Jupyter Notebooks, Nginx