NEIL JAY LACANDAZO

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EDUCATION

Mandaluyong College of Science and Technology (MCST) Mandaluyong City, Philippines
Bachelor of Science in Information Systems Oct 2023 – 2027 (Expected)
- **Relevant Coursework:** Data Warehousing, Machine Learning, Full-Stack Development, Data Structures and Algorithms, System Analysis and Design.

EXPERIENCE

MCST Official Website Mandaluyong City, Philippines
Frontend Developer | Lead Implementer Dec 2024 – Present
- Developed the official college website using Vite, React (TypeScript), and Tailwind CSS, establishing the institution's initial digital infrastructure.
- Collaborated with supervising professors and stakeholders to gather requirements, ensuring alignment with institutional branding and faculty needs.
- Built a responsive, accessible, and maintainable frontend architecture optimized for performance and scalable for future expansion.

TECHNICAL PROJECTS

MCST eClinic: Patient Record Management System Mandaluyong City, Philippines
Full-Stack Developer | Lead Engineer Jul 2025 – Nov 2025
- Built a complete patient record management system using Next.js, Spring Boot, and MySQL, replacing a manual paper-based workflow for the Health Services Office.
- Designed core modules for patient registration, medical visits, and digital charting, ensuring privacy compliance inspired by GDPR/HIPAA principles.
- Implemented role-based access control, JWT authentication, and real-time analytics dashboards to improve accuracy and operational efficiency.

Breast Cancer Tumor Classification Mandaluyong City, Philippines
Team Lead | Machine Learning Engineer Jul 2025 – Nov 2025
- Developed a machine learning model to classify tumors using the Wisconsin Diagnostic dataset, achieving 98.25% accuracy via Logistic Regression.
- Conducted extensive data preprocessing, feature scaling, and exploratory data analysis to ensure high-quality model inputs and interpretability.
- Evaluated performance using ROC curves and confusion matrices, achieving a 0.98 AUC score and minimizing false negatives for reliable detection.

Healthcare Patient Outcome Data Warehouse Mandaluyong City, Philippines
Project Manager | ETL Engineer | Data Modeler Jul 2025 – Nov 2025
- Led the development of a star schema data warehouse to consolidate patient, diagnosis, and treatment data into a unified, analytics-ready system.
- Designed and implemented ETL pipelines using Python (Pandas) and MySQL to clean, normalize, and load data from multiple hospital systems.
- Built automated loading scripts and documented ERD metadata to support multidimensional analysis and reporting for hospital administrators.

LEADERSHIP & ACTIVITIES

PMAX-EMAX Hackathon (SafeZone AI) Pasay City, Philippines
Project Manager & Machine Learning Engineer (2nd Runner-Up) Dec 2025
- Led a team of five to develop a prototype AI-powered safety monitoring system using computer vision for real-time PPE detection.
- Coordinated development tasks and designed the system workflow, resulting in a 3rd place finish among industry competitors.

IT Olympics Makati City, Philippines
Participant (Java Programming Category) Nov 2024

- Competed in the Java Programming category, securing 17th place out of 63 participating universities and colleges, demonstrating strong algorithmic problem-solving under time pressure.

National Library of the Philippines   Manila, Philippines
Koha ILS Training & Implementation   Oct 2024
- Trained in deploying Koha (Open-Source Integrated Library System) on Ubuntu servers and managing core library modules.
- Assisted in setting up the college library system, configuring network access, handling backups, and performing ongoing maintenance.

Association of Information Systems Students (AISS)   Mandaluyong City, Philippines
Auditor   Oct 2023 – Aug 2024
- Ensured financial transparency and accountability by conducting objective reviews of records and validating expense reports.
- Monitored fund utilization and strengthened internal controls to support compliant student activity operations.

SKILLS & CERTIFICATIONS

- **Frontend:** JavaScript/TypeScript (Next.js, React), Tailwind CSS, Shadcn UI.
- **Backend:** Java (Spring Boot), Python (FastAPI), Node.js.
- **Database:** MySQL, PostgreSQL.
- **Data Engineering:** Snowflake, Spark, Airflow, SQL, Python (Pandas, Numpy, SQLAlchemy).
- **Machine Learning:** Python (Scikit-Learn, MLxtend, Seaborn, Matplotlib, Joblib).
- **DevOps & Tools:** Docker, Git, GitHub Actions (CI/CD), Linux (Ubuntu, Mint), Postman.
- **Certifications:** Associate Data Engineer (DataCamp).