
JOSHUA A. ANDRADA

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Education

TECHNOLOGICAL INSTITUTE OF THE PHILIPPINES

Bachelor of Science in Information Technology

- **Honors/Awards:** 3x Dean's Lister Awardee

Cubao, Quezon City

June 2026

Professional Experience

ATENEO INNOVATION CENTER(AIC)

Internet of Things Intern & Researcher

Katipunan Ave, Quezon City

January 2026 - April 2026

- Processed, structured, and cleaned a complex 385,728-row dataset using automated scripts and data validation tools, achieving 100% data integrity and resolving imbalances.
- Gathered, matched, and verified environmental metrics across multiple live telemetry and sensor platforms to ensure baseline accuracy for analytical models.
- Documented step-by-step verification procedures and maintained strict operational standards to prevent data loss or misreporting.
- Facilitated technology transfer and community-led technical training to ensure the long-term operational resilience of deployed systems.

CONCENTRIX

Customer Service Representative

Ortigas, Mandaluyong City

July 2022 - November 2022

- Conducted high-volume account lookups, updated customer records, and cross-checked internal logs with zero error tolerance, maintaining a 92% CSAT score.
- Classified and tagged high-volume qualitative call logs and feedback trends into structured categories to streamline workflow efficiency and issue resolution.
- Handled sensitive client inquiries while adhering strictly to company data privacy and security guidelines.

Academic Projects & Activities

FootTech: A Computer Vision-Based Foot Traffic Analytics for Real-time Resource Optimization in Manila City using YOLOv10

- Processed **real-time spatial-temporal traffic data** by streaming live public YouTube CCTV feeds using the **YOLOv10** computer vision framework.
- Analyzed **pedestrian density and peak movement patterns** to simulate data-driven resource allocation for urban planning.
- Designed **data visualization dashboards** to display real-time crowd density and traffic trends clearly.

WATCH: An AI-Driven Multimodal Acoustic-Vision Sensing Framework for Hyper-Local Extreme Rainfall Classification and Early Warning

- Architected a **multimodal analytics framework** combining acoustic and computer vision data to generate real-time weather and rainfall insights.
- Mapped environmental sensor data against **PAGASA intensity thresholds** to perform **predictive risk modeling** for early flood warnings.
- Reduced **data acquisition infrastructure costs by 90%** while maintaining data integrity for urban risk management.

AI-Enhanced Circular Sanitation: A Smart Nature-Based System for Transforming Septic Effluent into High-Value Ornamental Aquaponics

- Modeled **continuous water-quality data** from sonar and telemetry sensors to optimize septic effluent transformations in aquaponics systems.
- Analyzed **real-time telemetry metrics** to trigger early-warning thresholds and local alert mechanisms for hazardous environmental shifts.
- Conducted **statistical validation on sensor performance** to maintain reliable monitoring across low-cost hardware configurations.

Skills, Competencies, & Interest

Data Entry & Verification: High-Volume Data Entry, Data Cleaning & Preprocessing, Record Cross-Checking, Accuracy Auditing, Info Extraction, Data Formatting.

Research Tools & Web: Online Background Investigation, Google Maps / Street View Verification, Spatial Data Checks, Public Registry Search, Web Scraping.

Software & Systems: MS Excel (Advanced Formulas, VLOOKUP/XLOOKUP, Data Validation), SQL, MySQL, SQLite, Power BI, Salesforce (Foundational/CRM).

Workplace Traits: High Attention to Detail, Independent Time Management, ISMS/Data Security Compliance, Fast Turnaround, Remote/Mid-Shift Ready.

Interests: Artificial Intelligence • Data Analytics • Cybersecurity • Networking • Cloud • Mathematics

Certifications

Oracle Cloud Infrastructure 2025 Certified Multicloud Architect Professional *Oracle, September 2025*
Expires *September 2027*

- Demonstrates advanced skills in designing, integrating, and managing multicloud solutions across Oracle and third-party cloud environments.

Oracle Cloud Infrastructure 2025 Certified AI Foundations Associate *Oracle, October 2025*
Expires *October 2027*

- Recognition of foundational AI and cloud skills, including AI concepts, services, and responsible AI principles within Oracle Cloud.

Oracle Cloud Infrastructure 2025 Certified Foundations Associate *Oracle, September 2025*
Expires *September 2027*

- Validates fundamental knowledge of Oracle Cloud Infrastructure services, architecture, and core cloud concepts.
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Extra and Co-Curricular Activities

PHILTECH INNOVATHON 2026 *BGC, Taguig City*
Participant *January 21-22, 2026*

C2 DESIGN CHALLENGE *T.I.P. Quezon City*
Top 5 Finalist *November 2025 - June 2026*

JUNIOR INFORMATION SYSTEMS SECURITY ASSOCIATION (JISSA) *October 2023 - April 2026*
Member

JUNIOR PHILIPPINE COMPUTER SCIENCE *September 2023 - April 2026*
Member