

Mark Andrei R. Castillo

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OBJECTIVES

Self-driven Computer Science graduate with strong leadership experience and hands-on expertise in DevOps, full-stack development, and AI/ML. Passionate about building impactful digital solutions and eager to contribute to transformative tech projects while continuing to grow professionally.

EDUCATION

Bachelor of Science in Computer Science

Technological Institute of the Philippines

2021 - 2025

Quiapo, Manila

Awards/Honors:

With Honor Distinction, Service Excellence Award and Service Stewardship Award

TECHNICAL SKILLS & EXPERTISE

Languages & Frameworks: Python, Java, C/C++, PHP, SQL, Django, Laravel, React (Next.js), Node.js

Web & Mobile Dev: HTML, CSS, JS, Android Studio, Tailwind CSS, Framer Motion

Cloud & DevOps: AWS (S3, DynamoDB), Docker, Git, GitHub Actions, CI/CD, Bash, Terraform

Databases: PostgreSQL, MySQL, MongoDB, Firebase, DynamoDB

Automation & Testing: Selenium, Playwright (browser automation, web scraping, and automated testing)

AI/ML & NLP: LLM Integration (Groq, DeepSeek R1), YOLOv8, MediaPipe, NLTK, spaCy, multi-language sentiment & emotion analysis, real-time disaster detection

Tools & Visualization: Cursor/VS Code, NetBeans, Colab, Figma, Seaborn, Matplotlib

Soft Skills: Leadership, adaptability, team collaboration, communication

INTERNSHIP EXPERIENCE

Cloud DevOps Intern — Oaktree Innovations

Mar – May 2025

Binan, Laguna

Implemented and maintained cloud infrastructure on AWS, including ECS, S3, and serverless services. Automated deployments and CI/CD pipelines using GitHub Actions and Docker. Monitored system performance, optimized workflows and supported DevOps practices to ensure reliable and scalable cloud operations, with basic knowledge in Kubernetes.

RESEARCH & PROJECTS

- **Oaktree**

Cloud-ready DevOps platform focused on deploying and operationalizing a full-stack application using Docker, AWS ECS, and Infrastructure as Code with Terraform. hands-on experience in local and cloud environment setup, AWS credential configuration, and automated CI/CD pipelines using GitHub Actions.

- **Cloud Capture**

Leveraged AWS services (S3, DynamoDB, Lambda) to automate photo editing and simplify photo-sharing good for photobooth.

- **PanicSense PH (Thesis)**

AI-powered, real-time disaster monitoring platform using multilingual sentiment analysis (mBERT, Bi-GRU, LSTM) to detect emotional responses from social media and news, helping responders prioritize high-distress areas in the Philippines.

- **SmartSort**
AI-driven waste segregation system utilizing YOLOv8 to classify waste into biodegradable and non-biodegradable, enhancing waste management efficiency through computer vision and deep learning.
- **SignABC**
Sign-to-speech interpreter using MediaPipe and Python to facilitate communication for alphabetical sign language users. Designed to bridge the gap between gesture and spoken interaction, promoting inclusivity in digital interfaces.
- **MoodSync**
Mental health support chatbot using NLP to analyze emotional tone and deliver empathetic responses, promoting mental well-being and human-AI connection.
- **SpeakSmart**
Speech-to-text platform using Azure Cognitive Services, NLTK, spaCy, and Hugging Face Transformers to provide rich textual insights and sentiment analysis from audio data.

LEADERSHIP EXPERIENCE ROLES

- **Microsoft Student Community – TIP Manila**
TSMP & Communication Committee | LORSO Rep
(Sept 2021 – May 2025)
- **League of Recognized Student Organizations – TIP Manila**
Assistant Secretary (Sept 2024 – May 2025) | Project Manager, Operations Committee (Sept 2023 – May 2024)
- **AWS Cloud Club – TIP Manila**
Vice-Chief Relations Officer (Jan – May 2024)
- **ICONS (Information & Computing Organization of Networked Students)**
Treasurer (2021–2023) | Public Relations Officer, Comm. Head (2022–2024)
- **College of Computer Studies – TIP Manila**
Public Relations Officer (Jan 2023 – May 2024)
- **CITE Department Student Council – TIP Manila**
Mentee - Sponsorship & Marketing Head (Aug 2021 – Jul 2022)
- **UPHSD SHS Alumni Association**
Public Information Officer (Apr 2024 – Apr 2027)

REFERENCES

Jenelyn M. Aranas

OJT Coordinator, TIP Manila

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Dr. Larry A. Vea

Dean, College of CS, TIP Manila

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