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   **2021 - 2025**
Technological Institute of the Philippines   *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
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