

# Irish Danielle "Ase" Morales

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## EDUCATION

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### Ateneo de Manila University

2024

*BS Computer Science (Specialization in Data Science and Analytics)*

Top graduate, GPA: 3.83, Director's List Scholar (Top 1.5% of applicants), 100% Financial Aid Scholar

## AWARDS

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### University Scholarly Work Award, Ateneo de Manila University

May 2025

Awarded for international Scopus-indexed publication of undergraduate thesis

### Program Award (Top Graduate), Ateneo de Manila University

June 2024

Top program graduate of BS Computer Science based on academics, extracurriculars, and service

### Google Code-in Grand Prize Winner, Google LLC

Jan 2019

1st Filipino winner; Awarded among 3,124 participants in 77 countries for excellence in open-source engineering

## PUBLICATIONS

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**I.D. Morales**, C.J. Echon, A.R. Teaño, R. Alampay, P.A. Abu. (2024). "MobileLookNet: A Lightweight Convolutional Neural Network for Detection of Osseous Metastasis Using Feature Fusion and Attention Strategies." *Asia Conference on Computer Vision, Image Processing and Pattern Recognition*.

M.M. Rodrigo, L.P. Alampay, Q.N. Lee-Chua, **I.D. Morales**. (2024). "An Experience Sampling Study of Student Emotional Life: Preliminary Results." *International Conference on Computers in Education*.

## MANUSCRIPTS IN PROGRESS

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**I.D. Morales**, A. Dayrit. "Meta-learning in Spiking Neural Networks: A Survey." *(In preparation)*.

## RESEARCH EXPERIENCE

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### Research Assistant

Jan 2026 - May 2026

*Ateneo Laboratory for the Learning Sciences*

- Developing a multimodal patient interview simulation platform with AI-driven dialogue (LLMs & voice synthesis) to model and analyze patient-practitioner interaction dynamics for medical professional training

### Research Assistant

Jan 2026 - Apr 2026

*Ateneo Laboratory for Intelligent Visual Environment*

- Developing a clinical decision support platform deploying medical imaging models (YOLO, U-Net, & CNN-based architectures) for medical professional training in bone scintigraphy analysis

### Research Consultant

Jul 2025 - Dec 2025

*Cavite National Science High School*

- Advised on the architectural design of a bidirectional Sign Language-to-Text translation system for mobile with spatiotemporal models optimized for on-device inference

### Research Assistant

Jan 2023 - Dec 2024

*Ateneo Laboratory for the Learning Sciences*

- Developed a cross-platform data acquisition pipeline and analytics dashboard for experience sampling
- Co-authored a study published in Proceedings of ICCE 2024 on longitudinal analysis of affective trends in students

## INDUSTRY EXPERIENCE

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### Founding Developer

Apr 2025 - Jul 2025

*Tenext.ai*

- Developed a real-time multimodal voice agent (STT → LLM → TTS) with retrieval-augmented generation; qualified for technical evaluation with the Philippines' flag carrier airline
- Implemented SOC 2 & ISO 27001 compliance standards for data protection across banking and healthcare clients

### Full Stack Developer

Feb 2025 - Apr 2025

*FYB Technologies*

- Developed a transaction ledger using fixed-point arithmetic to eliminate floating-point non-determinism
- Engineered automated reconciliation for data consistency across wallet system and double-entry accounting ledger

### Full Stack Developer

Jun 2023 - Dec 2024

*Hackazouk*

- Led development of distributed syncing engine for 150+ tables for microservice finance system with 15,000+ users
- Fast-tracked from intern to developer within 2 months (vs. 6-month standard); entrusted with technical project leadership of a 5-developer team

## TEACHING EXPERIENCE

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### Technical Mentor (Graph Neural Networks), *Magnify Mentoring*

Sep 2023 - Jan 2024

Taught theory and implementation of graph neural networks for analysis of sociopolitical voting behavior

## PROGRAMS AND WORKSHOPS

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### Oxford Cohort: Existential Risk Workshop

Feb 2024

*Global Challenges Project*

*Oxford, UK*

Competitive (~30 students accepted globally) and intensive workshops on technical AI safety and biosecurity research

### Technical Alignment: AI Safety Fundamentals

Mar 2024 - May 2024

*BlueDot Impact*

*Remote – Global*

On AI alignment, including reinforcement learning from human feedback, interpretability, and scalable oversight

## SKILLS

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Programming & Data      Python, C++, TypeScript, SQL, LaTeX, NumPy, Pandas, Scikit-learn, Matplotlib

ML/AI                        PyTorch, GNNs, CNNs, LLMs, RAG, STT, TTS

Tools                        Git, Linux/Bash, Docker, Postman, AWS, Nginx, GitHub Actions

## RESEARCH INTERESTS

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Complex systems, computational neuroscience, embodied intelligence, biologically plausible learning algorithms, optimization