

JOHN IVAN DIAZ

Machine Learning Engineer

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PROFILE

Hi! I'm John Ivan, a Professional Machine Learning Engineer and award-winning researcher with personal experience in machine learning and software development. With technical background in ML workflows and software development life cycles, I experienced defining use cases, developing AI-powered softwares, and applying MLOps that promote Responsible AI. I have worked with global software engineering teams and have experience working at scale. I'm a fresh graduate, but the track record, Cum Laude, publications, awards, and leadership roles, shows I learn fast and committed to excellence. I'm eager to commence my professional journey with reputable organization dedicated to world class quality.

PROFESSIONAL CERTIFICATES

- [Machine Learning Engineer Professional Certificate](#) (7 courses) • Google
- [TensorFlow Developer Professional Certificate](#) (4 courses) • DeepLearning.AI
- [Machine Learning on Google Cloud Specialization](#) (4 courses) • Google

These professional certificates demonstrate my ability to:

- Define business use cases and success criteria, assess feasibility, explore and prepare datasets, and select appropriate architectures and algorithms that match the organization's objectives.
- Develop end-to-end machine learning pipelines, clean and engineer features, build models, run evaluations, iterate on improvements, and present results to stakeholders.
- Deploy models to production, plan infrastructure needs, operationalize prediction services for scalability and reliability, and implement monitoring to maintain model accuracy.
- Apply MLOps practices that drive collaboration with cross-functional teams and promote Responsible AI.

SKILLS

Programming Languages: Python, Java, C, SQL, MATLAB

Machine Learning Tools: TensorFlow, Keras, PyTorch, Scikit-Learn, Computer Vision

Generative AI Tools: LLM, LangChain, ChromaDB, RAG, Prompt Engineering

Data Management: BigQuery, Apache Beam, Dataflow, Pub/Sub, Artifact Registry

Other Technologies: GCP, Vertex AI, Kubernetes, Docker, Git/GitHub

CONFERENCES

[10th International Conference on Next Generation Computing](#) 11/24

- Presented research about digital twin technology for agriculture using computer vision to international researchers and practitioners.
- Won **"Best Paper Award"** selected among 40 oral presenters.
- Publication: earticle.net/Article/A468830

[9th University Research Conference](#) 04/25

- Presented research about digital twin technology for agriculture using deep learning to international researchers and practitioners.
- Won **"Best Presenter Award"** selected among 52 poster presenters.

OTHER AWARDS

Technology:

- EduLearn Excellence in ICT (2021)
- EduLearn Excellence in Robotics (2021)
- Best in Computer (2019, 2015)
- TechFactors Most Outstanding IT Student (2018)

Communication:

- Campus Journalism Award (2021)

Character:

- Saint Joseph Freinademetz (2021, 2019)
- Saint Arnold Janssen (2015)

PROJECTS

[Reptile Classifier Model](#)

- Developed a supervised CNN to classify reptile species into 5 classes using the CIFAR-100 dataset.
- Implemented normalization, one-hot encoding, augmentation, early stopping, and dropout, achieving 90% accuracy despite limited training data.
- Reported performance and dataset limitations for Responsible AI.

[Plant Growth Multimodal Time-Series Model](#)

- Developed a predictive model of plant growth using 2 input modalities: images and numerical data.
- Implemented YOLOv8 preprocessing with ConvLSTM and 3D convolution, realizing novel multimodal solution for the defined task.
- Engineered custom loss function blending MSE and Temporal Consistency, achieving higher accuracy than standalone losses.

[2D to 3D Image Reconstruction Computer Vision Algorithm](#)

- Developed a novel algorithm that reconstructs constrained images to 3D models using OpenCV and Open3D, offering alternative solution to photogrammetry requiring multiple views.
- Merged monocular depth estimations on stereo images, improving depth quality compared to standalone monocular estimation.
- Integrated deep learning and computer vision, yielding 3D models from predicted images.

[Company Finder LLM Assistant](#)

- Developed an LLM-powered chatbot that helps users find information about companies.
- Trained on structured dataset, orchestrated using LangChain, stored embeddings in ChromaDB, and retrieved relevant context using RAG.

See all projects: www.johnivandiaz.com

INTERNSHIP

Software Engineering Intern

01/25–05/25

Accenture • Cebu City, Philippines

- Collaborated with global software engineering teams across time zones working on a procurement platform.
- Delivered mission-critical KPI reports using SAP Ariba, giving stakeholders the visibility to act quickly, minimize financial risks, and maintain 24/7 operational continuity.
- Monitored automation using Control-M and flagged system failures in real time, accelerating team response and reducing resolution delays.
- Communicated system performance accurately, reinforcing fairness and guaranteeing dependable client transactions.

EDUCATION

M.Eng. Artificial Intelligence

Expected start 01/26

University of the Philippines Diliman

#1 university in the Philippines. Admitted over competitive selection.

BS Computer Engineering

08/21–05/25

University of San Carlos

Honors: Cum Laude

High School

06/15–05/21

Holy Spirit School of Tagbilaran

Honors: With High Honors

LEADERSHIP

- **Research collaborator** with international students from South Korea (July 2–12, 2024)
- **Class President** for 8 consecutive years (2013–2021)
- **Ambassador** for 2 years in school robotics team (2019–2021)
- **President** for 3 years in school media team (2018–2021)
- **Creative Director** for 4 years in school publication team (2017–2021)
- **Founder** of creative sideline business alongside studies and engaged local and international clients (2017–Present)

References available upon request.