

# Marc Anthony Reyes

## Software Engineer, Advanced Analytics

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### TECHNICAL SKILLS

Full Stack Web Application Development, Android Application Development (Native Java/Kotlin), DevOps (CI/CD, Automation and Testing, Kubernetes, Docker), Machine Learning (Model Development, Production, AutoML), API Development, UI/UX Design

### TECHNOLOGY STACK

Java, Python, NodeJS, Kotlin, Django, Flask, Docker, Kubernetes, TensorFlow (and other Data Science libraries), Cloud Computing (experience in GCP, AWS, and Alibaba Cloud)

### EXPERIENCE

#### GCash, Machine Learning Engineer

Full-time | July 2019 - present

- Migrated Advanced Analytics (formerly Data Science) team's tech stack and deployments to Kubernetes, a container orchestration system for automating deployment, scaling, and management, decreasing compute costs by 60%.
- Developed in-house libraries for the team, speeding up model development and deployment time and abstracting modeling tasks such as data ingestion, feature engineering, and model training. This reduced model development and deployment time by 40%.
- Designed and developed production pipelines for Machine Learning (ML) projects such as GScore, the overall GCash credit trust score, and RecSys, GCash's usecase recommendation engine.
- Designed and developed ML models with scalable production pipelines for ML projects such as RecSys ALS and Zoloz facial deduplication system.
- Built AutoML modules for ML projects, automating hyperparameter optimization of ML models in production and minimizing manual model recalibration.
- Integrated CI/CD pipelines to production workflows, automating tests and error monitoring in production deployments.
- Optimized production source codes through code reviews, reducing computation time and resource utilization.
- Built a job scheduling API, simplifying cross-platform integration for Machine Learning production pipelines.

#### Bai Web and Mobile Labs, Data Analyst Intern

Internship | April - June 2018

- Built dashboards and data visualizations for descriptive and predictive analytics of student data.
- Designed and developed a Machine Learning model to predict and recommend a strand (e.g. ABM, STEM, HUMSS) from historical student data.
- Integrated dashboards to a client school's web application making daily and weekly student data summaries accessible.
- Talked on a conference invitation about the benefits of AI/ML integration in education and how AI/ML can make learning personalized and tailored based on a student's learning preference and readily available student data.

### EDUCATION

#### Xavier University - Ateneo de Cagayan, BS Computer Science

2015 - 2019

- Graduated Honorable Mention, ranked 4th among the graduating student batch.
- Awarded Best Thesis and won sixth place for Best Applied Science Research during the 2019 BPI-DOST Science Awards for the study, "A Mobile Application Using Convolutional Neural Networks (CNN) for Detecting Rice Plant Diseases and Pests".
- Awarded as finalist with funding for Best Farming Innovation project during the 2018 Jollibee Group Foundation Farmer Entrepreneurship Program for designing an AI-powered drone to monitor crop health.

### TECHNICAL TALKS AND WORKSHOPS

#### GIVEN

##### Using GCP and Machine Learning in Helping Rice Farmers

GDG Cloud DevFest Manila

Makati, Philippines

December 2019

##### Introduction to Python Web Development with Django

2019 PyCon Asia-Pacific

Makati, Philippines

February 2019

##### Introduction to Python Web Development with Django

3rd Django Girls CDO Workshop Cagayan de Oro, Philippines

January 2019

##### Introduction to Google Cloud Platform (GCP) with Qwiklabs 2018

Google Cloud Platform Next Extended CDO

Cagayan de Oro, Philippines

September 2018

##### Developing Machine Learning Applications with TensorFlow

Mindanao State University - Iligan Institute of Technology Campus DevCon

Iligan, Philippines

May 2018

##### Image Inpainting Through a Simple Neural Network with TensorFlow

2018 PyCon Philippines

Makati, Philippines

February 2018

##### Machine Learning Image Processing with TensorFlow

2017 Google Developer Group Cagayan de Oro DevFest

Cagayan de Oro, Philippines

November 2017

### PROJECTS

#### TensorFlow Plant Disease Prediction

<https://tf-plant-disease-prediction.marcreyes.xyz>

#### PalayLab Android App

<https://palaylab.marcreyes.xyz>

More projects at <https://marcreyes.xyz>.