JAN FEDERICO COSCOLLUELA IV

Portfolio: https://fedcoscolluela.github.io/Portfolio/

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Work Experience

Texas Instruments, *Automation Engineer*   *Aug 2023 – Present*

- **Best Paper, TI Technical Conference 2024**: Pioneered the development and fan-out of an automated cost monitoring tool across 7 sites, achieving record-breaking cost goals in 3 consecutive quarters and saving 150 hours per quarter.
- **Scrap Reduction**: Led 3 software development cycles reducing machine scrappage from 8% to ~1% in one quarter.
- **Full-Stack Solutions***:* Delivers application support and robust data management for 24/7 manufacturing systems.

Texas Instruments, *Full Stack Developer Intern*   *Jul 2022 - Aug 2022*

- Designed and integrated validation-enabled data upload feature in an enterprise supply chain system, saving business planners 6 hours per daily cycle while preserving complex business rules.

DOST Advanced Science & Technology Institute, *Data Engineer Intern*   *Jun 2021 - Aug 2021*

- Developed machine learning models for weather prediction with 90% accuracy using extensive datasets.

Cebu Pacific Air, *Information Technology Intern*   *Sep 2020 - Jan 2021*

- Spearheaded the web development of an enhanced airline booking process with 25% user click count reduction.

Education

University of the Philippines Manila   *Aug 2019 – Aug 2023*
Magna Cum Laude, BS Computer Science Major in Statistical Computing (GWA: 1.3)

- **Best Thesis Award**: Semi-Auto Annotation and Optical Character Recognition on Patient Monitor
- Student Council Mental Health Initiative

Saint Charles Academy   Aug 2017 - Jun 2019
Batch Valedictorian, STEM-focused curriculum (GPA: 96)

- Youth Advocates for the Philippines (YAP), *Municipal Director*
- Mathematics Trainers' Guild Philippines, *Silver Medalist*

Projects

Using Semi-Auto Annotation and Optical Character Recognition   *JS, Python, Google Cloud*
for Transcription of Patient Monitor Using Smartphone Camera

- **Publication**: ACM Digital Library; Presented at Digital Medicine & Image Processing 2023.

Blockchain-based E-Procurement System   *Figma, Solidity, React, JIRA*

- **Excellence Award**: Annual hackathon, AppCon 2022, led by OTis Philippines Inc.

Heart Disease Analysis Dashboard   *SQL, DBeaver, Data Studio*

- Built a real-time analysis dashboard leveraging Kaggle data for medical insights.

Affiliations & Leadership

Google Developer Student Clubs UP Manila, *Chief Finance & Externals Officer*   *July 2022 – Aug 2023*

- Managed club finances and external company partnerships securing funding for major events.

UP Society of Computer Scientists, *Social Media Platform Manager*   *Aug 2021 – Aug 2023*

- Enhanced the organization's online presence through innovative content strategies and member engagement

Skills & Certifications

Python, R, Java, JavaScript, React, SQL, Spring MVC, Google Cloud, JIRA, DBeaver, Airflow, Microsoft Office
Computational Thinking for Problem Solving (Coursera): University of Pennsylvania
Getting Started with AWS Machine Learning (Coursera): Amazon Web Services