MARK CRISTOPHER PETRAS

A driven Computer Science student and aspiring developer with a proven track record of leadership at Pamantasan ng Lungsod ng Maynila. Excels in designing and developing intuitive, user-friendly interfaces while ensuring optimal website performance. Passionate about leveraging technology to solve complex problems and committed to continuous learning and growth. Demonstrates strong collaboration skills, a keen eye for detail, and the ability to thrive in dynamic, team-oriented environments

CONTACT

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📍 1317 Masinop St. Tondo Manila

🖱 https://github.com/seegyulater

EDUCATION

Pamantasan ng Lungsod ng Maynila
Bachelor of Science in Computer Science
2021 - 2025

Metropolitan Medical Center
Information Communication and Technology
2018 - 2020

SOFTWARE SKILLS

Leadership

Teamwork

Time Management

Problem Solving

Communication

Analytical Thinking

Mentorship

Detail-Oriented

Attention to Detail

Adaptability

Reliability

Accountability

EXPERIENCES

Data Management Intern   MARCH 2025 – PRESENT
Pinnacle Technologies Inc.

- Conducted User Revalidation and User Acceptance Testing (UAT) for the Pamantasan ng Lungsod ng Maynila (PLM) ERP System, ensuring proper user access levels and validating system functionality across multiple modules.
- Acted as a Business Analyst by assisting senior team members during client meetings with PLM offices (AIMS, Library, UHS), gathering requirements, and facilitating clear communication between stakeholders and developers
- Assisted in data management and workflow optimization across ERP modules, gaining practical experience in ERP systems, systems analysis, and stakeholder coordination

ICTO Intern   JULY 2024 – AUG 2024
Pamantasan ng Lungsod ng Maynila

- Designed and implemented a document request and status tracking system for the PLM Office of the University Registrar (OUR) using PHP, MySQL, Laravel, and Filament.
- Assisted office personnel by troubleshooting issues such as monitor repairs, Wi-Fi connectivity, and other technical concerns.
- Gained hands-on experience with networking, including the use of LAN, RJ45 connectors, and cables.
- Set up and prepared new PC monitors for the PLM Laboratory, including cleaning and configuring the systems.

PROJECTS

AN ENHANCEMENT OF JAVADI ET. AL.'S NON-DOMINATED SORTING GENETIC ALGORITHM-II-GRID-BASED CROWDING DISTANCE ALGORITHM(NSGA-II-Gr) FOR RESOURCE ALLOCATION APPLIED IN OPTIMIZING RABI CROPS YIELD   MAY 2024 – MAY 2025

- Collected and preprocessed a dataset of 18 Rabi crops category from Kaggle for use in multi-objective optimization algorithm.
- Enhanced Javadi et al.'s NSGA-II-Gr algorithm by applying it to high-dimensional optimization problems, identifying three distinct challenges and addressing each with customized objective-based solutions.

- Developed a Flask-based Rabi Crops Yield System to run and compare the performance of the original and enhanced NSGA-II-Gr algorithms.
- Created the overall manuscript or documentation of the study.

PrismViz
SEPT 2024 – DEC 2024

Pamantasan ng Lungsod ng Maynila

- Leader and Developed PrismViz a Data Visualization Tool built with Next.js, JavaScript, ReactJS, Chart.js etc.
- Developed a Strong Leadership skills and collaborated closely with the back-end developers and members to integrate API calls into the front-end codebase.
- Used version control systems such as Git to manage source code repositories in a team environment.
- Integrate AI-powered data insights with the Gemini Developer API

PLM Thesis Archive System
SEPT 2024 – DEC 2024

Pamantasan ng Lungsod ng Maynila

- Leader and Developed PLM Thesis Archive System for managing, storing, and retrieving academic theses and research paper
- Created UI components with reusable codes for a better user experience.
- Used version control systems such as Git to manage source code repositories in a team environment.
- Uses Python, Django, MySQL or MariaDB for the intergration of the system

PLM Mobile App & Enjoyce Travel and Tours
JAN 2024– MAR 2024

Pamantasan ng Lungsod ng Maynila

- Leader and part of the front-end and back-end for the course's project Mobile Application Development
- Participated in the creation of the Full-Stack for the two (2) apps we're developing namely PLM App & Enjoyce Travel App, utilizing Flutter and Android Studio as the IDE
- Demonstrated ability to motivate, lead and mentor team members.

Academic Management System (ERP)
SEP 2023 – JUNE 2024

Pamantasan ng Lungsod ng Maynila

- Tech Stack: TALL stack, Laravel, Filament
- Programming Languages: PHP, HTML, CSS
- Project Manager that handles the overall team, talk to the clients and communicate with developers and team members to create a system for Pamantasan ng Lungsod ng Maynila that manages students, faculty, subjects, departments, and colleges.
- Has three user roles: Admin, Chairperson, and Student. Admin can add students, add users, and manage user roles. Chairpersons can enroll a student and manage the faculty under their department. Students can view grades and schedules.
- This project was made to be part of the Academic ERP (Enterprise Resource Planning) as a completion project for our program's Software Engineering 1&2.

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TECHNICAL SKILLS

Python

Java

PHP

Javascript

HTML5 / CSS3

Dart

Laravel

Flask

React / ReactJS

Next.js

Flutter

C/C++

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DATABASE & BACKEND

MySQL

MariaDB

TOOLS & PLATFORMS

Git / Github

Microsoft Office

Figma

Gemini Developer API

Chart.js

Visual Studio Code

Excel

Flutterflow

Cosmic Script
SEP 2023 – JUNE 2024

Pamantasan ng Lungsod ng Maynila

- Programming Language: Python
- Custom programming language made with Python and C++
- Participated in the creation of the Lexer that reads character, syntax analyzer and semantic code output generation that can execute commands from the user
- Lead the documentation of the compiler and created test scripts and took part in the testing phase.

PUBLISHED WORKS

AN ENHANCEMENT OF JAVADI ET. AL.'S NON-DOMINATED SORTING GENETIC ALGORITHM-II-GRID-BASED CROWDING DISTANCE ALGORITHM(NSGA-II-Gr) FOR RESOURCE ALLOCATION APPLIED IN OPTIMIZING RABI CROPS YIELD
MAY 2024 – MAY 2025

Pamantasan ng Lungsod ng Maynila

- Published at United International Journal for Research & Technology (UIJRT), an India based multidisciplinary publishing company.
- Presented at the 1st Asean Multidisciplinary Research Conference 2024 organized by International Society of Transdisciplinary Researchers, Educators, and Leaders, Inc (ISTREL) which won the Best Presenter Award.
- Currently indexed on Google Scholar and ResearchGate.
- DOI Link: 10.13140/RG.2.2.31689.66403

LICENSES AND CERTIFICATION

UIJRT PUBLICATION
Feb 2025

United International Journal for Research & Technology

- Skills: Machine Learning · Research Skills · Heuristics · Heuristic Analysis · Analytical Skills

University Capture the Flag Online Competition
August 2024

Pamantasan ng Lungsod ng Maynila

- Skills: Cybersecurity, Networking, Network Security

Cloud Services and Architecture
Apr 2024

Pamantasan ng Lungsod ng Maynila

- Skills: Cloud Services

Unravel the secrets of Software Quality Assurance
Apr 2024

Pamantasan ng Lungsod ng Maynila

- Skills: Essentials of UI/UX Design

Introduction to Cybersecurity
March 2023

CISCO Networking Academy

- Skills: Explain the most common Cyber Threats, Attacks, and Vulnerabilities.

Cybersecurity Essentials
Apr 2023

CISCO Networking Academy

- Skills: Describe the procedures used by cybercriminals and explain the purpose of laws related to cybersecurity.

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CYBERSECURITY & NETWORKING

Cisco Cybersecurity Essentials

RJ45

Networking

OTHER TECHNICAL SKILLS

Machine Learning

Metaheuristic Algorithms

UI/UX Design

Software Development & Engineering

IT Support

PROFESSIONAL REFERENCE

Bren Alfred España
Pamantasan ng Lungsod ng Maynila
- baespana24@gmail.com
- 09171388873
- Lecturer III / Professor
- best time to call 3pm onwards

PERSONAL REFERENCE

Gideon Antony Salangsang
Globe Fintech Innovations Inc
- gideonsalangsang0428@gmail.com
- 09763117899
- Cadet Engineer
- best time to call 4pm onwards

Daniella Sayson
Stylar
- saysondaniella.ds24@gmail.com
- 09213655627
- Data Entry Specialist
- best time to call 1pm onwards