JER HESEOH ARSOLON

BS APPLIED MATHEMATICS

About Me

I'm a recent graduate with a Bachelor's degree in Applied Mathematics, passionate about solving real-world problems using data-driven methods. I'm actively developing skills in Data Science, Machine Learning, and AI, with a strong commitment to growing in data analysis, statistical modeling, and computational techniques to uncover insights and build impactful solutions.

Education

University of the Philippines Los Baños

Graduated 2025

BS Applied Mathematics - Major in Quantitative Management and Decision Science

Caloocan City Science High School

Graduated 2015

Contact

A3W apartment F.O Santos Street Umali Subd. Brgy Batong Malake, Los Baños Laguna

+63 976 279 4990

Linkedin Github

jrarsolon@up.edu.ph

Work Experience

Tutor.com

Advanced Tutor

2022-Present

- Provide tutoring in computer science and mathematics to students ranging from high school to college level.

Elinnov Technologies

Software Engineer Intern

June 2024 - August 2024

- Assisted in developing web applications using ASP.NET MVC and C#. Worked with both SQL and MongoDB databases to implement and manage data-driven features. Collaborated with senior engineers on coding tasks and project reviews.

Leadership Experience

Led projects:

- TSP for UPLB Campus Tour
- Study Time Optimization for BS Applied Mathematics student at UPLB
- Harvesty: A Web Application for Agricultural E-Commerce
- Student Organization Management System (Database)
- QR Code Generator and Scanner in Python

Test Scores

Personality

- Advocate (INFJ-T)
- Introverted – 55%, Intuitive – 52%, Feeling – 52%, Judging – 57%, Turbulent – 61%

Language

- English - C1 Advance
- Tagalog - Native
- Japanese - Elementary

Research Paper

- Geospatial Machine Learning for Predicting Banana Yield Gaps in the Philippines Under Climate Uncertainty

Projects

TSP for UPLB Campus Tour

Used QGIS and Python to optimize a route tour for UPLB campus tour.

Optimizing Study Time for BS Applied Mathematics student at UPLB

Used steepest descent method to improve academic performance. Developed practical tools and strategies for effective time management.

Harvesty: A Web Application for Agricultural E-Commerce

A farm-to-table e-commerce app for the Department of Agriculture, connecting farmers and consumers with product listings, order tracking, and admin tools. Built with React, Express, and MongoDB.

Student Organization Management System (Database)

A student organization management system with UI and full CRUD functionality, built using Python and MariaDB. It manages memberships, roles, fees, and generates detailed reports on member status and payments.

Relevant Coursework

- Math 174: Numerical Analysis I
- Math 175: Numerical Analysis II
- Math 180: Probability Theory
- AMAT 170: Theory of Interest
- AMAT 160: Linear Programming
- AMAT 161: Non-Linear Programming
- AMAT 162: Integer and Dynamic Programming
- AMAT 163: Metaheuristics
- AMAT 167: Operations Research I
- AMAT 168: Operations Research II
- CMSC 22: Object-Oriented Programming
- CMSC 127: File Processing and Database Systems
- CMSC 100: Web Programming

Technical Skills

Programming Languages

- Python
- Matlab
- R
- C#
- Java
- Javascript, Typescript (HTML, CSS)
- C++
- SQL

Data Analysis Tools

- Numpy
- Pandas
- SciPy
- Sciit-learn

Database Management

- MySQL
- PostgreSQL
- MongoDB
- MariaDB

Development Environments

- Jupyter Notebook
- RStudio
- Visual Studio Code or Visual Studio
- EclipseIDE

Version Control

- Git

Tech Stack

- Frontend: ReactJS
- Backend: Node.js with Express.js
- Database: MongoDB

Containerization

- Docker
- Kubernetes

CI/CD

- GitHub Actions