Ayan Lodovice Batulan

Computer Science • DOST Scholar

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CAREER OBJECTIVE

Aspiring Computer Scientist with a strong foundation in Machine Learning, Data Science, and Software Development, seeking to leverage analytical and programming skills to develop innovative solutions and contribute to impactful projects in a dynamic, growth-oriented organization.

EXPERIENCE

DROPZONE COMPUTER SHOP

Cyber Cafe Assistant

Metro Manila, Marikina 2019-2022

- Gained practical experience in basic networking and system maintenance, building a foundation for advanced technical concepts.
- Optimized daily operations by monitoring computer systems and resolving hardware and software issues to ensure uninterrupted service.
- Managed inventory by processing stock levels and sales data, applying database management principles.
- Troubleshoot technical problems related to software, networking, and customer systems, honing diagnostic and problem-solving skills.

DESIGN PROJECTS COMPLETED / RESEARCH

Research Gap Finder (December, 2024)

A website tool to collect and analyze thesis libraries to identify research gaps and underexplored fields in various disciplines.

Inarawan Coffee Shop Branches (July, 2024)

Developed a Point-of-Sale and Inventory Management System for a coffee shop using ReactJS, TailwindCSS, Python, NodeJS, and PostgreSQL.

Algorithmic Abyss: Applying Procedural Algorithms for Dungeon Map Generation in Games (May, 2024)

Developed a Python-based Dungeon Crawler Game with random map generation using Drunkard's Walk, Binary Space Partitioning, and Cellular Automata algorithms.

Advanced Encryption Standard (AES) and Least Significant Bit (LSB) Steganography (May, 2024)

Developed a Python system that uses encryption techniques such as AES and LSB.

Comparative Assessment of Renewable Energy in the Philippines (April, 2024)

Conducted a simulation-based analysis comparing wind and solar energy resources for sustainable energy planning in the Philippines.

Lunti App: Junk Shop Recycling for Rewards (December, 2023)

Developed an app that promotes effective recycling by allowing users to earn points redeemable for goods at participating retailers and branches.

Algorithm Animation (November, 2023)

Developed ReactJS animation for Quick Sort, Binary Search and Merge sort algorithm with TailwindCSS

Library System with NLTK and Sentiment Analysis (November, 2023)

Designed a library system utilizing NLTK for sentiment analysis to improve user experience through feedback analysis

AGLZZ Computer Parts Shop (September, 2022)

Developed a Java-based inventory and point-of-sale system with CRUD functionality using MySQL as the backend.

Tea-amo (November, 2021)

Developed a C++ based inventory management and point-of-sale system with CRUD functionality.

SEMINARS ATTENDED

Artificial Intelligence from A-Z: Fundamentals of Data Science and Beyond (December 6, 2022)

Technological Institute of the Philippines

Cyber Security Buff: Defending Against SQL Injection and Brute Force Assaults (April 27, 2022)

Technological Institute of the Philippines

EXTRA AND CO-CURRICULAR ENGAGEMENTS AND VOLUNTEER WORKS

Association for Computing Machinery (ACM)

Member

October 01, 2023 - Present

Society of Scholars (SOS)

Member

August 01, 2024 - Present

Career Center (CC)

Member

August 01, 2024 - Present

Codecademy

Member

August 04, 2021 - Present

LeetCode

Member

January 02, 2023 - Present

GitHub

Member

December 12, 2022 - Present

KNOWLEDGE AND SKILLS

Technical Skills: Proficient in Python, Java, C++, JavaScript, HTML and CSS, React.js, Flutter, MySQL and experienced with Git. **Software Development:** Proficient in developing efficient and scalable software solutions, combining technical expertise with a focus on user experience and performance optimization.

Design Tools: Skilled in creating detailed flowcharts, process diagrams, and system designs using Lucidchart and Photoshop. **Problem-solving:** Experienced applying analytical thinking and programming to troubleshoot and optimize systems and workflows.

Collaboration: Strong leadership and teamwork abilities, fostering effective communication.

REFERENCE

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