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AEBRAHM CLYDE P. RAMOS

EDUCATION

De La Salle University, Manila — *Computer Science Major in Computer Systems Engineering*

September 2022 – September 2027, Manila

Operation Brotherhood Montessori Center Inc., Fairview (OB Montessori, Fairview) — *Grade School to Senior High School*

SKILLS

Programming Languages: HTML/CSS, Javascript, Python, Java, C, x86 Assembly, Risc-V Assembly

Frameworks/Libraries: React, Node.js, Express

Tools/Technologies: Github, Docker, GCP, Azure, Agile

Databases: MySQL, SQL, Firebase, MongoDB

Operating Systems: Windows, MacOS

Concepts:

> **Software Development:** Object-Oriented Programming (OOP), Data Structures, Algorithms, Software Engineering Principles, Web Development, Database Modeling, Database Design

> **Computer Systems Engineering:** Computer Organization and Architecture, Operating Systems, Microprocessor Interfacing, Digital Logic Design, Mathematical Modeling for Computer Systems, Electronic Circuits, Linear Circuits, Digital Signal Processing

EXPERIENCE

University Student Government, DLSU — *Executive Director for Web Development*

December 2024 – PRESENT

- Spearheads the development and maintenance of the University Student Government's (USG) website focusing on user experience and accessibility while providing the tools necessary for the students.

Google Developer Students Club, DLSU
- **Chief Developer (Executive) |** October 2024- Present
  - Spearheaded the development of internal tools and systems designed to enhance organizational productivity and efficiency
  - Created a dedicated recruitment website that streamlined the application process, contributing to the significant increase in membership., resulting in tripling of membership from 120 to 360 members and officers.
  - Collaborating with partner student organizations to develop and implement their websites, expanding their reach and impact.
  - Initiated a partnership with both the University Student Government and Computer Studies Government to develop web-based solutions aimed at improving student's quality of life.
  - Currently leading the development for esp-32 based locally ran facial recognition attendance system for org events, organizational portal for optimizing org workflow and to reduce dependence on third party softwares, and Retrieval Augmented Generation chatbot for student services.
- **Logistics Officer and Equipment Handler |** October 2024- Present
  - Utilized google suites applications to track timelines, tasks, and to allocate resources and manpower effectively.
  - Successfully helped implement events both in and outside the university.
  - Collaborated closely with the point of contact for the partnerships and other team members to coordinate and supply logistical needs.
  - Effectively troubleshoots technical difficulties before and during the event

Outdoor Retail Company, USA — *Remote, Part Time Frontend Developer*

October 2024 – PRESENT

- Development and implementation of reusable Shopify components
- Tasked with making the site mobile responsive and

ORGANIZATIONS

DLSU Applied Computing and Machinery (DLSU ACM)— *Activities Officer*

October 2024 – PRESENT

- Improved the usability and management of the currently used booth attendance tracker for an annual college wide event.

DLSU Microsoft Student Community

- **Research and Development Officer |** October 2024- Present
- *Technical Development Officer |* *November 2023 – October 2024*

Youth & Peace in Action *— Advocate*

Jan 2021 – Jan 2022

PROJECTS

GDGOC-DLSU Main Website | *Next.js 15, React 19, TypeScript, Material-UI v6, Firebase, Google Gemini AI*

Developed a comprehensive website for the Google Developer Group on Campus at De La Salle University. This website includes a fully-fledged e-commerce platform with custom payment processing and AI receipt analysis, a member management system, and an organizational information portal to enhance engagement and efficiency.

GDGOC-DLSU Organizational Management Platform | *Next.js, React, TypeScript, Material-UI, Firebase, Tailwind CSS*

Created an organizational management platform for Google Developer Groups on Campus featuring member directory management, order processing with payment verification, and multi-departmental administrative dashboards to streamline internal operations and enhance organizational oversight.

Veritas La Salle USG Digital Platform | *Next.js 15, TypeScript, Tailwind CSS, Radix UI, React Quill*

Developed a comprehensive student government portal for De La Salle University. This platform serves as the central hub for student services, governance information, and campus engagement across multiple colleges and campuses, featuring interactive project directories and management tools.

La Salle Debate Society Official Website | *Next.js 15, TypeScript, Tailwind CSS, DaisyUI, React 19*

Designed and implemented an organizational website for the La Salle Debate Society (LSDS) of De La Salle University. This website includes member department management, event showcases with interactive galleries, and a learning resources portal to support the society's activities and outreach.

GDGOC-DLSU Recruitment Website| *React 18, Vite, Firebase, Material-UI, Mantine UI, TailwindCSS*

Built a recruitment and showcase website for Google Developer Student Club De La Salle University, featuring dynamic content management, interactive galleries, and a seamless member onboarding experience to attract and engage potential members.

Retrieval Augmented Generation Chatbot | *Vertex AI, Gemini, Javascript, Html/CSS, Tailwind*

Developed a RAG chatbot using Google Cloud Platform's Vertex AI and Gemini model. This is developed to assist the university's help desk by providing automated response to student inquiries only bound to the knowledge given to it and not hallucinating. This aims to improve the efficiency of concierge/help desk tickets and improve the response times.

Hospital Management System | *Java, MySQL*

This is a command-line interface (CLI) based hospital management system built using Java and MySQL. It provides functionalities for managing various aspects of a hospital, including patients, doctors, rooms, laboratories, admissions, treatments, billing, and reporting.

Eatery Pathfinder | *Python, Data Structures (Graphs, Queues, Stacks), AI Search Algorithms (BFS, DFS, UCS, A*)*

Developed a Python-based application that implements and compares various AI search algorithms (Breadth-First Search, Depth-First Search, Uniform Cost Search, and A* Search) to find optimal paths in a simulated eatery environment. Demonstrated the ability to apply theoretical concepts from an Intelligent Systems course to a practical problem, considering factors like obstacles and varying path costs. Utilized fundamental programming concepts, including data structures (e.g., graphs, queues, stacks) and algorithms, to implement efficient search strategies.

Client-Server File Exchange System | *Python, Socket Programming, Network Programming*

Developed a client-server file exchange system that functions similarly like Google Drive. Enables multiple clients to connect, transfer, and download files from a central server.

RGB to Grayscale Converter | *x86 Assembly, C, NASM, TDM-GCC*

A standard RGB to Grayscale converter linking C and Assembly together where the primary function to convert is implemented in Assembly.

Hotel Management System | *Java, Object-Oriented Programming (OOP), Data Structures, Java Collections Framework, potentially Java Swing*

Developed a Java-based hotel management system as a project for an Advanced Object-Oriented Programming course (CCPROG3), demonstrating proficiency in OOP principles and design patterns. The system allows for managing hotel operations, including room reservations, guest check-in/check-out, and potentially other features like billing and reporting. Utilized appropriate data structures and the Java Collections Framework to efficiently store, manage, and process hotel and guest data.

Multiple Web Applications (Frontend & Backend) | *HTML, CSS, JavaScript, React, Firebase (Firestore, Authentication, Hosting), Vercel*