Mark Celemen

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EDUCATION

De La Salle University — Sep 2022 – Present
B.S. Computer Science, Minor in Data Science. Consistent Dean's Lister — *Malate, Manila*
Coursework: Data Structures and Algorithms, Software Engineering, Web Development, Database Management, Object-Oriented Programming, Data Analysis & Visualization, Statistics & Probability, Computer Networks, AI/ML

EXPERIENCE

Undergaduate Researcher — Jul 2025 – Present
Dr. Andrew L. Tan Data Science Institute — *McKinley Hill Dr, Taguig*
- Selected for a competitive research program in data engineering, machine learning, and predictive analysis

Tutor — Oct 2024 – Present
Peer Tutors Society — *Malate, Manila*
- Taught 300+ students in CS fundamentals and mathematics through 1-on-1 sessions, group studies, and reviewers
- Achieved 9.5/10 rating by optimizing tutoring through attendance, engagement, and feedback data analysis

PROJECTS

SlipStream | *Software Engineering* | *GitHub Link* — May 2025 – Aug 2025
- Managed an 8-member team as Scrum Master to deliver a workforce management system on-time using SDLC
- Engineered a software to manage employee records and time slips with MongoDB, Express, React, and Node.js
- Implemented 8 features to streamline record management, including file-to-database integration and mass emailing

DLSU Eatery Pathfinder | *Artificial Intelligence* | *GitHub Link* — May 2025 – Jun 2025
- Created an AI-powered navigation system using UCS and A* for optimal eatery routing via multi-criteria scoring
- Designed UI to visualize maps and path queries in under 50ms using HTML & CSS, JavaScript, and Bootstrap
- Enabled real-time state and goal updates by building a dynamic graph system in Python and JavaScript

rabble* | *Web Development* | *GitHub Link* — Jan 2025 – Apr 2025
- Developed a full-stack forum app that handles CRUD operations, user authentication, and search functionality
- Styled frontend with HTML & CSS, JavaScript, and Figma, and deployed on Render for public access
- Optimized RESTful APIs with Node.js, Express, and MongoDB, and handled pull requests and merge conflicts

Library Management System | *Harvard CS50x* | *GitHub Link* — Dec 2024
- Built a full-stack user-inventory system handling 100 library records using HTML & CSS, Flask, and MySQL

EXTRACURRICULARS

Vice President | *Peer Tutors Society* — Sep 2025 – Present
- Selected to lead a network of 100+ tutors and 40 officers, serving as mentor, motivator, and team-builder
- Managed partnerships, secured sponsorships, and maintained structured databases for data-driven decision-making

Project Head & Event Host | *ReduceRisk(): Risk-Reduction Workshop* — Feb 2025 – Apr 2025
- Coordinated a 12-member team to plan and execute a program, distributing 60 first-aid kits to 39 barangay locals
- Oversaw end-to-end project operations, including conceptualization, organization, marketing, and monitoring

Team Leader of University Relations | *HackerCup 2024* — Feb 2024 – Jul 2024
- Led a 5-member team to secure 6 partnerships—including a top media partner—through targeted email campaigns
- Enhanced outreach potential by 71% by increasing the prospect database via research and data wrangling

SKILLS

Languages: C, Java, Python, JavaScript, HTML & CSS, SQL
Technologies & Databases: Node.js, Express, React, Flask, Bootstrap, MongoDB, MySQL
Data Analytics & Science: Jupyter Notebook, Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn
Tools: VS Code, Git, GitHub, GitLab, Jira, Figma, Render, MS Office, Google Workspace, Notion, PHStat
Soft: Leadership, Communication, Collaboration, Attention to Detail, Adaptability, Problem-solving, Time Management