



# DENISE LIANA P. HO

## BSCS-ST STUDENT

### OBJECTIVE

Passionate and detail-oriented software development student with a strong interest in data science and statistics, dedicated to leveraging analytical skills and programming expertise to build innovative solutions.

### CONTACT

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### TECHNICAL SKILLS

- **Programming Languages:** Python, Java, C/C++, Go
- **Web Development:** HTML, CSS, Node.js
- **Database Application Development:** MySQL, MongoDB
- **Data Analysis:** Excel (PHStat), Python (Pandas, Numpy)
- **Academic Writing & Formatting Tools:** Microsoft Word, Overleaf, MyBib, LaTeX
- **Version Control:** GitHub
- **Collaboration Tools:** Jira, Notion

### EDUCATIONAL BACKGROUND

**De La Salle University** | 2023 - Present

Bachelor of Science in Computer Science major in Software Technology; 3.122 CGPA as of AY2024 - 2025, Term 3

**Mapúa University SHS** | 2021 - 2023

STEM Strand; *Academic Excellence Award w/ High Honors (2021 - 2023)*

### ACADEMIC RESEARCH PROJECTS

**Computational Power of Queue Automata** | April 2025

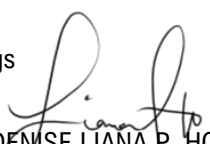
- Investigated the computational power of Queue Automata compared to other machines in the Chomsky hierarchy
- Constructed mathematical simulations between machines to demonstrate the Turing-equivalence of Queue Automata
- Evaluated an existing application of queue automata in DNA computing within the field of bioinformatics

**Significance of Anxiety Levels and Gaming Playstyles in the Reliance on Gaming as a Coping Mechanism** | August 2024

- Investigated the relationship between anxiety levels (using GAD-7, SPIN-5, & SPIN-10 scores) and gaming playstyles
- Performed pre-processing and statistical analyses on a public dataset to identify trends and correlations
- Contributed to writing the methodology, interpretations, and results of the research paper
- Oversaw the research study, ensured the efficiency and correctness of group outputs

**Representasyon ng Kulturang Pilipino sa Pamamagitan ng Filipino Dubbing sa mga Pelikula** | April 2024

- Analyzed the impact of Filipino culture on the dubbing of five foreign movies/shows dubbed in Filipino
- Arranged linguistic observations by category of their content and cultural relevance
- Contributed to writing the analysis, results, and conclusion of the research paper
- Led the production of the creative video, which demonstrated major themes of the research findings

  
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MAY 19, 2025

### **Tunes for the Thoughts: Impact of Lo-fi Music toward the Academic Performance of SHS Students | May 2023**

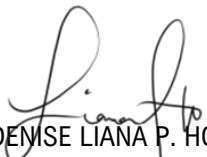
- Evaluated the effect of listening to lo-fi on attention span, reading comprehension, and memorization
- Surveyed 30 students who actively listen to lo-fi music
- Contributed to writing the background study, methodology, results, and analysis of the research paper

### **The Relationship of Facebook Posts and the Political Views of SHS STEM Students | May 2022**

- Conducted qualitative research examining how Facebook posts influence political awareness and views among students
  - Performed thematic analysis to identify political engagement patterns, susceptibility to misinformation, and overall reliance on social media
  - Oversaw the research study, coordinated fair task distribution among the group
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## **OTHER ACADEMIC PROJECTS**

- **LabMate / Laboratory Room Reservation Web App (CCAPDEV - Term 2, AY2024 - 2025):** developed a web application that allows students to sign in or sign up, view lab room reservations, book seats for specific time slots, and manage their reservation history through a profile dashboard.
- **Diagnostics Center and Laboratory Clinic Database App (CCINFOM - Term 1, AY2024 - 2025):** developed a database application for a diagnostic clinic to manage patient records, process lab test orders, schedule appointments, assign staff and equipment, and generate detailed reports.
- **Hotel Reservation System (CCPROG3 - Term 3, AY2023 - 2024):** developed a Java application that allowed users to create hotels with a specified number of rooms, make room reservations, and manage or edit existing bookings.

  
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