# Andrian Lloyd Maagma

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## Summary

Computer Science student with experience in full-stack web development, UI/UX, data science, and NLP. Built and maintained web apps, led design work, and conducted research.

## Education

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| **BS** | **University of the Philippines Visayas**, Computer Science | Miagao, Iloilo, Philippines |
| | | Aug 2024 – present |

- Cumulative GWA (1st Year): 1.22 — consistent President's Lister
- Relevant Coursework: Foundations of Programming, Discrete Mathematics

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| **SHS** | **Maloco National High School**, STEM | Ibajay, Aklan, Philippines |
| | | 2022 – 2024 |

- Awards: With Highest Honor, DOST-SEI Undergraduate Scholarship
- Relevant Coursework: Research Capstone Project, Practical Research 1 & 2

## Experience

**Supreme Secondary Learner Government**, Vice President — Maloco NHS, 2023 – 2024

- Led the creation of the student council's visual identity, including logo design and promotional assets.
- Designed graphic materials for social media, tarpaulins, backdrops, flyers, and other publications.

**Hilltop (School Publication)**, School Paper Layout Artist — Maloco NHS, 2023 – 2024

- Designed 12-page tabloid school newspapers, which served as the school's entry for the Division Schools Press Conference.
- Collaborated with writers and editors to ensure visual design aligns with content.

**Philippine Startup Challenge 7 MATHuto**, Startup Co-founder — 2022 – 2022

- Co-founded a startup that developed a mobile application to gamify math learning for Grade 1 students.
- Contributed to branding, UI/UX design, and pitch presentations for the startup competition.

## Projects

**Aklish** ↗ — 2024 – 2025

A web app for crowdsourcing Aklanon-English translations

- Built full **CRUD** functionality for translations using Django and React, enabling user-generated content.
- Implemented a dictionary-based Aklanon **spellchecker**, improving translation accuracy.
- Developed an Aklanon word **stemming** library enhance spell-check precision.
- Conducted user testing with 30 native speakers and iteratively improved UX, resulting in increased usability.

**TagLID** ↗ — 2023 – 2024

A word-level Language Identification (LID) tool for Tagalog-English (Taglish) text

- Utilized rule-based **Natural Language Processing** (NLP) techniques to identify the language of each word.
- Created a **Python library** for Tagalog word stemming to improve Tagalog language detection for inflected words.
- **Scraped** from Tagalog and English dictionaries using BeautifulSoup4 to generate frequency-based lookup tables.
- Computed code-switching frequency from 57 survey responses to automate data analysis for a language research study.

## Skills

**Tools and Technologies:** Python, Django, JavaScript, TypeScript, React, Next.js, TailwindCSS, Git, Adobe Photoshop, Illustrator, InDesign

**Industry Knowledge:** Web development and design, Natural Language Processing, Data analysis

**Interpersonal Skills:** Problem-solving, Adaptability, Teamwork, Communication

**Languages:** English (Professional working proficiency), Tagalog (Professional working proficiency)