

Andrian Lloyd Maagma

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SUMMARY

Dedicated BS in Computer Science student with a keen interest in full-stack web development, UI/UX design, data science, and natural language processing. Proven experience in developing and managing web applications, leading design projects, and conducting research. Seeking opportunities to leverage technical skills and problem-solving abilities in a dynamic internship environment.

EDUCATION

Bachelor of Science in Computer Science <i>University of the Philippines, Miagao, Iloilo</i> <ul style="list-style-type: none">Relevant Coursework: Introduction to Computing, Introduction to Computer Science	2024–Present
Science, Technology, Engineering, and Mathematics Strand – Academic Track <i>Maloco National High School, Ibajay, Aklan</i> <ul style="list-style-type: none">Honors/Awards: With Highest Honor, DOST-SEI Undergraduate ScholarshipRelevant Coursework: Research Capstone Project, Practical Research 1 & 2	2022–2024
Media Arts – Special Program in the Arts <i>Ibajay National High School, Ibajay, Aklan</i> <ul style="list-style-type: none">Honors/Awards: With High HonorRelevant Coursework: Graphic Design, Animation, Photo and Video Editing	2018–2022

EXPERIENCE

Student Council Vice President <i>Supreme Secondary Learner Government, Maloco National High School</i> <ul style="list-style-type: none">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.	2023–2024
School Paper Layout Artist <i>Hilltop, Maloco National High School</i> <ul style="list-style-type: none">Designed the layout for a 12-page tabloid school newspaper, which served as the school's entry for the 2024 Division Schools Press Conference.Collaborated with writers and editors to ensure visual design aligns with content.	2023–2024
Resource Speaker in Collaborative and Desktop Publishing <i>School-based Journalism Camp, Solido National High School</i> <ul style="list-style-type: none">Conducted workshops on graphic design theory and software tools, including Adobe InDesign and Photoshop.Provided guidance on efficient time management techniques and collaborative skills for layout artists.	2022
Co-founder in Startup Competition <i>MATHuto, Philippine Startup Challenge 7</i> <ul style="list-style-type: none">Co-founded a mobile app to gamify math learning and improve student engagement.Contributed to branding, UI/UX design, and pitch presentations for the startup competition.	2022

PROJECTS

Aklish – Web Application <ul style="list-style-type: none">Developed a web application to support the Aklanon language with features for crowdsourcing translations, dictionaries, proofreaders, and word games using Django and React.js.Created a dictionary-based Aklanon spellchecker using the SymSpellPy library.Developed a Python library for Aklanon word stemming to improve the Aklanon spell-checker.Managed user feedback and iteratively improved the application based on input from 30 users.	2024
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- Developed an open-source Language Identification (LID) tool to analyze Tagalog-English (Taglish) code-mixed text data using Python and Natural Language Processing (NLP) techniques.
- Created a Python library for Tagalog word stemming to improve Tagalog language detection.
- Web scraped a Tagalog dictionary website and parsed XML files from an English dictionary using BeautifulSoup4.
- Derived metrics on code-switching frequency from data collected from 57 respondents.

RESEARCH

- **Maagma, A. L., & Salido, D. G. (2024).** *Aklish: Developing and evaluating a web application for crowdsourcing Aklanon-English translations* (Unpublished manuscript). Maloco National High School.
- **Maagma, A. L., & Salido, D. G. (2023).** *Correlation between the level of language dominance and the relative frequency of Taglish code-switching of science, technology, and engineering students* (Unpublished manuscript). Maloco National High School.
- **Francisco, R., Maagma, A. L., & Salido, D. G. (2023).** *The number of right isosceles triangles that can be formed in an $n \times n$ -size tangram grid* (Unpublished manuscript). Maloco National High School.
- **Maagma, A. L. (2023).** *Assessing the viability of a mobile application-based contextual chatbot-delivered psychotherapy in reducing depressive symptoms among adolescents* (Unpublished manuscript). Maloco National High School.

ACHIEVEMENTS

- **Regional Schools Press Conference** – Qualifier, Collaborative & Desktop Publishing, Layout Artist (2024)
- **Division Schools Press Conference** – Champion, Collaborative & Desktop Publishing, Layout Artist (2024)
- **Regional SciMathlympics** – Qualifier, Mathematics and Computational Science, Researcher (2023)
- **Division Schools Press Conference** – 1st Runner-up, Collaborative & Desktop Publishing, Layout Artist (2023)

CERTIFICATIONS

CS50w: Web Programming with Python and JavaScript **2024**

Harvard University, Online

- Relevant Coursework: Git, Django, React.js, UI/UX, Testing CI/CD, Scalability, Security

CS50p: Introduction to Programming with Python **2023**

Harvard University, Online

- Relevant Coursework: Unit Tests, Object-Oriented Programming, Functional Programming, Concurrency, Regular Expressions

CS50x: Introduction to Computer Science **2023**

Harvard University, Online

- Relevant Coursework: C, Algorithms, Data Structures, SQL, HTML, CSS, JavaScript, Flask, Cybersecurity, Artificial Intelligence

SKILLS

- **Tools and Technologies:** Python, Django, JavaScript, React.js, Adobe Photoshop, Illustrator, InDesign
- **Industry Knowledge:** Web development and design, Natural Language Processing, Data analysis
- **Interpersonal Skills:** Problem-solving, Easily Adaptable, Teamwork, Communication

LANGUAGES

- **English:** Professional working proficiency
- **Tagalog:** Professional working proficiency