

# 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

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

## EXPERIENCE

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

## PROJECTS

<b>Aklish – Web Application</b> <ul style="list-style-type: none"><li>Developed a web application to support the Aklanon language with features for crowdsourcing translations, dictionaries, proofreaders, and word games using Django and React.js.</li><li>Created a dictionary-based Aklanon spellchecker using the SymSpellPy library.</li><li>Developed a Python library for Aklanon word stemming to improve the Aklanon spell-checker.</li><li>Managed user feedback and iteratively improved the application based on input from 30 users.</li></ul>	<b>2024</b>
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## tagLID – Python Library

2023–2024

- 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

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- **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

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- **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, Computational and Mathematical Science, Researcher (2023)
- **Division Schools Press Conference** – 1<sup>st</sup> Runner-up, Collaborative & Desktop Publishing, Layout Artist (2023)

## CERTIFICATIONS

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### 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

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- **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

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