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   **2024–Present**

University of the Philippines, Iloilo, Philippines

- Relevant Coursework: Introduction to Computing, Introduction to Computer Science

Science, Technology, Engineering, and Mathematics Strand – Academic Track   **2022–2024**

Maloco National High School, Aklan, Philippines

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

Media Arts – Special Program in the Arts   **2018–2022**

Ibajay National High School, Aklan, Philippines

- Honors/Awards: With High Honor
- Relevant Coursework: Graphic Design, Animation, Photo and Video Editing

EXPERIENCE

Student Council Vice President   **2023–2024**

Supreme Secondary Learner Government, Maloco National High School

- 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.

School Paper Layout Artist   **2023–2024**

Hilltop, Maloco National High School

- 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.

Resource Speaker in Collaborative and Desktop Publishing   **2022**

School-based Journalism Camp, Solido National High School

- 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.

Co-founder in Startup Competition   **2022**

MATHuto, Philippine Startup Challenge 7

- 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.

PROJECTS

Aklish – Web Application   **2024**

- 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.

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

- **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 nxn-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, Computational and Mathematical 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