

COLEEN THERESE A. AGSAO

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EDUCATION

University of the Philippines Los Baños | Bachelor of Science in Computer Science 2020 - 2024

- **Honors:** magna cum laude
- **Recognitions / Scholarship:** Nominee for Phi Kappa Phi International Honors Society; University Scholar (Freshman, Sophomore, Junior 2nd Sem, Senior 1st Sem); College Scholar (Senior 2nd Sem); Honor Roll (Junior 1st Sem); OWWA Education for Development Scholarship Program (EDSP) Scholar

SKILLS

Front End | HTML, CSS, JavaScript, Dart, React, Vue, Next.js, Flutter, Tailwind, Bootstrap, Bulma

Database & Back End | Node.js, Express, MongoDB, MySQL, Firebase

Other Programming Languages | Python, C, Java, R

Developer Tools | Git, GitHub, Docker, Postman, Insomnia

WORK EXPERIENCE

Software Programming Instructor (Part-time) | MyCode Jun. 2022 – Present

- Instructed 50+ one-hour coding sessions for children in Python game development with the Turtle Module, and web development using HTML and CSS, helping students to develop essential programming skills and create engaging games and web pages.

AI and Machine Learning Apprentice | Dashlabs.ai through Kadakareer Sept. 2023 - Nov. 2023

- Independently spearheaded the development of a case-study specific project aimed at processing health forms through text extraction using Amazon Textract.
- Executed text segmentation, organized data utilizing PyPandas, and produced visualizations derived from the extracted data

Software Engineering Intern | White Widget Jul. 2023 – Aug. 2023

- Engaged in a live project, executing feasibility evaluations of prospective technologies that made a definitive 100% impact on the project's trajectory, endorsing the implementation of OSM and Pelias.
- Developed a data ingestion POC UI for Pelias, focused on backend utilization of Elasticsearch API and comprehension of the Pelias/csv-importer.

Python Tutor | Freelance Aug. 2021 – Oct. 2021

- Led a successful private tutoring program for 5 non-computer science juniors, delivering 36 hours of foundational programming instruction and practical support over three months.

PROJECTS

Code Blue: Web-based National Trauma Registry | *Firebase, Express, React, Node.js*

- Engineered a centralized database and APIs following industry best practices and integrated known medical security protocols such as Advanced Encryption Standard end-to-end column-level encryption and RSA web tokens to ensure medical data security for mobile and web client ingestion.
- Implemented a web application emphasizing administrative tasks for hospital administrators and analytics of the leading trauma center in the country.

Bridge: Social To-do Mobile App | *Dart, Flutter, Firebase*

- Designed and implemented a Flutter shared to-do mobile application that allows users to create, view, and edit their to-do items with their friends, and leveraged Firebase to develop a friends' feature that allows users to send friend requests, view friend's profiles, and unfriend friends to store and fetch friend information.

Bedev: Social Media Networking App | *MongoDB, Express, React, Node.js*

- Developed a full-stack social networking site like Facebook using the MERN stack with an implementation of a user-sign up form with form validation.
- Created a feed page with the ability to search, add new posts, edit or delete user's own posts, and display the most recent posts from both the user and their friends.

Eight-Puzzle Game with AI Solver | *Python*

- Implemented an interactive 8-puzzle game with three searching agents for solving the 8-puzzle game, including BFS, DFS, and A-Star Search, to provide users with different solution methods based on their preferences

LEADERSHIP & OTHER AFFILIATIONS

Alliance of Computer Science Students – UPLB, VP for Finance and Management Sept. 2022 – Sept. 2023

- Led finance-related initiatives for the financial growth of the organization, resulting in a 400% increase in funding from 10k to around 55k.

The Parliament: Debate Society – SLIDE XII, Technical Director Nov. 2022 – Mar. 2023

- Spearheaded a team of 5 that managed technology-related assets like technical manuals for 250+ participants and observers of the biggest debate tournament for high school students all over the Philippines.