

Neil Alden Escobin

escobin.neil@gmail.com | +639976447771
neilalden.github.io/portfolio

Experience

Software developer intern

Laguna State Polytechnic University - Los Baños, College of computer studies

“Esentry”

Apr - Jul 2022

- Developed a mobile app using React Native and Firebase for the backend.
- Remaked an existing system that's written in Php into react and migrated the database to PostgreSQL.
- Created a Flask API where a prototype machine learning model provides forecasting for any water quality parameter.
- Created a heatmap that shows the level of any water quality parameter.
- Assisted in setting up and testing of the device used for data gathering.

github.com/neilalden/esentry

github.com/neilalden/esentry-server

Mobile developer

Laguna State Polytechnic University - Los Baños, College of computer studies

“READAPP”

Sep 2021 - May 2022

- Developed a mobile app using React Native and Firebase for the backend.
 - Integrated an online classroom system that allows users to participate in activities, quizzes, and discussions.
 - Integrated a quiz system that allows users to participate in daily quizzes without needing an internet connection.
 - Integrated an online chat system.

play.google.com/store/apps/details?id=com.readappv1

Projects

Thesis

“Cluster-based analysis of COVID-19 cases in Los Baños, Laguna using machine learning algorithms”

Mar 2021 - Mar 2022

Performed a time series analysis of COVID-19 risk in Los Baños from March 2020 to March 2021 using three unsupervised clustering algorithms; K-Means, K-Medoids, and Mean shift. Their different approach in clustering agents paired with geospatial analysis is used to find places in Los Baños that share similar level of COVID-19 risk. The study has also identified places in Los Baños that formed patterns in their level of risk and possibly relationship of transmission of the disease

5th International Research Conference on Innovations in Engineering, Science and Technology

“Low-Cost Arduino-Based Mechanical White cane”

Dec 2021

Created a device with inexpensive parts that could be attached to virtually any stick. This device is equipped with object detection modules paired with vibration motor that will warn visually impaired people from stationary or moving obstacle. The object detection module can get precise distance values from obstacles and the vibration motor vibrate to different intensities to provide the user an accurate estimation of any obstacles

drive.google.com/file/d/16sDhtRWsyFZjrpsJwfvplPW5JT4D2ilg/view

Education and Courses

BS Computer Science

Aug 2018 - Aug 2022

Laguna State Polytechnic University, Los Baños

Information Communication Technology

Jul 2016 - Jul 2018

STI College, Calamba

JavaScript Algorithms and Data Structures
freeCodeCamp

Mar 2021

freecodecamp.org/certification/escobin/javascript-algorithms-and-data-structures

MIT 6.006 Introduction to Algorithms

MIT OpenCourseWare

Feb 2021

Youtube

Object-Oriented Design
University of Alberta

Dec 2020

Coursera

Responsive Web Design
freeCodeCamp

Jul 2018

freecodecamp.org/certification/escobin/responsive-web-design

References

Gene Marck B. Catedrilla, MIT

+639163604562

Jonardo R. Asor, MIT