



# NEIL ANDREW SONEJA

## SOFTWARE ENGINEER



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[portfolio.neilsoneja.click](https://portfolio.neilsoneja.click)

### SUMMARY

Skilled in computer engineering with good leadership and communication skills. With broad background on both hardware and software development. Proficient in multiple programming language and software development platforms. With strong problem-solving and analytical skills and able to work effectively in a team-based environment.

### PROJECTS COMPLETED / RESEARCHES

#### Variety Classifier

Python | Deep Learning | Convolutional Neural Network

**TIP Manila & Sugar Regulatory Administration • Aug 2023–March 2024**

- This project uses deep learning to identify varieties of sugarcane to solve problems in the sugarcane industry of the Philippines. It uses the Convolutional Neural Network transfer learning to train and evaluate a model that can classify images. Skills learned in this project are building and training of model, optimization of hyperparameters and classification layer in deep learning, and Google Colab IDE

#### Sugarcane Sorter

Python | Tkinter | C++

**TIP Manila & Sugar Regulatory Administration • Aug 2023–March 2024**

- This project creates a system that runs and manages various components to sort sugarcane based on its identified variety. Language used is Python, Tkinter for the user interface, C++ for the microcontroller.

#### Hash Algorithm for Reverse Image Search

Python | PHP

**Kaye Bakes • Feb 2022–March 2022**

- Web-Based application for a reverse image search using image hash algorithm. Used in the suggestion feature for Kaye Bakes web store, a customized cake making shop. Languages used are Python, PHP, HTML, CSS, and MySQL.

### WORK EXPERIENCE

#### Cru Philippines | LDHR

Intern - Software Developer • Feb - March 2024

- Develop and improve company website and dashboard.
- Automate form application and processing.
- Contribute to the improvement of development best practices.

#### Mitsubishi UFJ Financial Group

Intern - Software Developer • March - April 2024

- Setup and manage Amazon Web Service servers.

#### Freelance

Jan- Dec 2020

- Project based software developer
- Online Tutor
- Freelance Illustrator • Animator • Photo Video Editor

### PROFICIENCY

#### Machine Learning

Python | Transfer Learning | CNN

#### Object-Oriented Programming

Python, C++

#### Amazon Web Services

Amazon EC2 | Route 53

#### Microcontrollers

Arduino | Hardware & Software Development

### EDUCATION

#### Bachelor of Science in Computer Engineering

Technological Institute of the Philippines Manila - Graduating

#### Bachelor of Science in Applied Physics

University of the Philippines - Los Baños • 2014-2019

### CERTIFICATIONS

#### CyberOps Associate

Cisco Networking Academy • December 2023

#### Getting Grounded on Analytics

Development Academy of the Philippines • May 2020

#### Cisco Certified Network Associate

Cisco Networking Academy • December 2023

#### Introduction to Java

Codecademy • Sep 2021

### REFERENCE

#### Dr. Jennalyn Mindoro

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#### Arvin Lim

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