Thomas Thuan F. **Le Nguyen**

Computer Science Engineer · Coding Instructor

858-225-9156 | thomaslenguyenasian@gmail.com | thomasthuanlenguyen.me | ThomasLeNguyen | thomasthuanlenguyen

Summary

Undergraduate student that is double majoring in computer science and mathematics. Enjoys coding projects and finding new ways to better the world. Strong interests in many fields of computer science such as bioinformatics, object detection, autonomous driving, cloud, and back end development. Craves to learn and expand their knowledge in new ways. In their free time they enjoy playing video games and listening to music, as well as watching Chess.

Education

CSUSM (California State University San Marcos)

San Marcos, California

B.S. in Computer Science and Mathematics

August 2020 - May 2024

- C++ Programming in Data Structures
- MIPS Assembly Language Programming
- Digital Circuits
- Discrete Mathematics
- Current classes in Linear Algebra, Operating Systems, and Computer Architecture
- 3.53 Cumulative GPA

Palomar Community College

San Marcos, California

Summer Classes

Spring 2018, Spring 2020, Summer 2021

- Graphic Design Courses
- Statistics
- 4.0 Cumulative GPA

Westview High School

San Diego, California

High School Diploma

August 2016 - June 2020

- AP courses: Calculus AB, Calculus BC, Computer Science A, Computer Science Principles, Psychology and Statistics
- Graphic Design for 3 years
- Robotics in advanced systems control for 1 year
- Cyber Security for 1 year
- Philosophy Club for 2 years
- Investing Club for 2 years

Work Experience

California State University San Marcos

San Marcos, California

Research Intern for CSIS Department

June 2021 - August 2021

- Object detection with low-cost embedded systems
- Ran YOLOv4 models on a Coral Development Board
- Benchmarked frames per second and average precision
- Worked in environments such as Linux OS and Google Colab
- Ran local servers on Jupyter and Google Colab
- Created and presented a poster of my research
- Funded by Genentech Foundation

Code Ninjas

Encinitas, California

Lead Coding Instructor

April 2019 - Present

- Taught coding to ages ranging from 5-14 years of age
- Block coding in programs like Scratch and GameFroot
- JavaScript coding in the Code Ninjas curriculum
- Lua programming in Roblox Studio
- Minecraft world editing with TinkerCad and MCEdit
- Participating in the esports teams with students
- Original Lead Coding Instructor

La Clase Magica

Solana Beach, California

FLL Jr. Mentor

August 2017 - June 2018

- Mentored kids from underserved communities for the FIRST Lego League Jr. competition
- Helped plan and guided students to build a water system out of Legos
- Taught the importance of clean water and illustrated the different water systems and cleaning services

Projects

Lights Out Game

San Diego, California

Individual Project

October 2021

- Java program that the user plays
- Allows them to choose between either playing in 1D or 2D
- The player wins by turning off all the lights

eBay 2021 University Machine Learning Competition

San Diego, California

Individual Project

August 2021 - Current

- C++ program that takes in 2 million data entries in a dataset
- Design and program a class that will calculate the delivery dates of packages
- Compete against other teams
- Utilizes hash tables

Student Database

San Diego, California

Individual Project

May 2021

- C++ program that takes in student information such as student's 10-digit ID, name, and GPA
- Converts student's 10-digit ID into a more convenient number using DJBX33A hash algorithm
- Utilizes hash tables

Infix Calculator

San Diego, California

Individual Project

February 2021

- C++ program that takes in an infix expression and computes
- Checks for inconsistency
- Able to compute with basic operators
- Utilizes stack

Dictionary

San Diego, California

Individual Project

December 2020

- C++ program that takes a text and puts the words into a dictionary format
- Explicit words are removed from the dictionary
- Different letter files are created and words are put into it depending on what they start with
- Utilizes linked lists

Calculator Game

San Diego, California

Individual Project

October 2020

- C++ program where you have to compute the values given
- 2 random operands and an operator are given (add, subtract, multiply, divide)
- If the queue of size 10 becomes full with the computing questions, the player loses
- Game is won when 100 questions are answered correctly
- Time it takes for next question to appear depends on difficulty chosen
- Utilizes threading