Thomas Thuan F. Le Nguyen

thomaslenguyenasian@gmail.com • (858) 225-9156
github.com/ThomasLeNguyen • linkedin.com/in/thomasthuanlenguyen/ • thomasthuanlenguyen.me

Education

California State University San Marcos — Expected Graduation: May 2024
B.S. in Computer Science and Mathematics — GPA: 3.53

- Relevant Coursework: Discrete Mathematics, Linear Algebra, Data Structures and Algorithms, Assembly Language and Digital Circuits, Computer Architecture, Operating Systems

Technical Skills

- C++, Java, Javascript, HTML, CSS, Python, Assembly
- Linux, Mac OSX, Windows, Android
- Visual Studio, Eclipse, Atom, PyCharm, MARS, Xcode

Work Experience

CSIS Department, CSUSM — *June 2021 - August 2021*
Research Intern

- 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, CA — *April 2019 - Present*
Lead Coding Instructor

- 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.

La Clase Magica, Solana Beach, CA — *August 2017 - June 2018*
FLL Jr. Mentor

- 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**: (Java) Game that allows players to choose between either playing in 1D or 2D. The player wins by turning off all the lights in a random generated array.
- **Delivery Time**: (C++) Takes in 2 million data entries in a dataset. Designed and programmed a class that will calculate the delivery dates of packages. Utilizes hash tables.
- **Student Database**: (C++) Takes in student information such as 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**: (C++) Takes in an infix expression and computes. Checks for inconsistent inputs. Able to compute with basic operators. Utilizes stack.
- **Dictionary**: (C++) 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 in depending on what they start with. Utilizes linked lists.
- **Calculator Game**: (C++) Game where you have to compute 2 random operands and an operator (add, subtract, multiply, divide). If the queue hits the size of 10, the player loses. Game is won when 100 questions are answered correctly. Time it takes for the next question to appear depends on the difficulty chosen. Utilizes threading.