

# THANH NGAN PHAN

San Diego, CA

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## SUMMARY

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Graduating in December 2023 with a degree in Computer Science and a passion for continuous learning and skill expansion. A dedicated and open-minded individual who thrives on solving complex problems and embraces new challenges with a growth mindset. Constantly seeking opportunities to acquire and apply new knowledge. Adept at adapting to new instructions and workflows promptly, demonstrating a strong belief in the power of adaptability and flexibility in the dynamic field of computer science, embedded systems engineering, and computer architecture. Ready to contribute innovative solutions and collaborate effectively in team-oriented environments.

## EDUCATION

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**University of California, San Diego**

Bachelor of Science, Computer Science

*September 2021 - December 2023 (Expected)*

GPA: 3.3

**Santa Monica College**

Non-Degree Seeking, Transfer Preparation

*August 2019 - June 2021*

## SKILLS

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**Tools:** VS Code, ModelSim, Quartus, Git, Jupyter Notebook.

**Language:** Python, C++, C, SystemVerilog, HTML, CSS, JavaScript.

## PROJECTS

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**Thanh Phan's Website**, Website link

*July 2023 - present*

A functional website to inform and connect users with. Creates a professional and interactive space to allow users to have a better experience and be able to increase interest in job recruitment. The web page is built by applying vanilla HTML, CSS, and JavaScript.

**MiniMA (Minimal Machine Architecture)**, Github

*April 2023 - present*

MiniMA is a small-scaled design of computer architecture, built using SystemVerilog and Python, that adapts the original load-store and accumulator machines with a change in the number of bits, using 9-bit machine code. The intention of this design is to prioritize simplicity in memory while able to ensure time efficiency.

## PROFESSIONAL EXPERIENCE

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**Teaching Assistant**, YOLA English Center, Vietnam

*March 2021 - August 2021*

Completed 30+ weekly reports on attendance and disciplinary performance.

Assisted in maintaining an engaging and respectful educational environment by promoting discipline and cooperation in an entire class session.

Tutored struggling students individually and in small groups of 2-4 students to reinforce learning concepts.

## ACADEMIC EXPERIENCE

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**Design & Analysis of Algorithm**, University of California, San Diego

Built a significant understanding with the emphasis on algorithms including sorting, searching, pattern matching, and graph algorithms.

**Advanced Data Structure**, University of California, San Diego

Analyzed the efficiency of a data structure in addition to appropriate searching/sorting algorithms depending the usage of an application using the C++ as the main language.

**Introduction to Computer Architecture**, University of California, San Diego

Acquired comprehensive understanding of the various components that form a computer system and the functionalities of the CPU, memory units, and their interconnections to facilitate computer performance.

**Components and Design Techniques for Digital Systems**, University of California, San Diego

Gained insight of finite state machines, Mealy and Moore machines, practiced in design techniques for digital system, combinational modules, combinational logic and universal gates.