Henrik Nguyen

Thanh Cong Nguyen

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SKILLS
Programming Skills: Java , Python, C, HTML, CSS, JavaScript, React, Git
Education: University of San Francisco **Majors**: Computer Science (GPA: 4.0)
Expected Graduate Date: December 2025
Dean's List: Fall 2022, Spring 2023, Fall 2023, Spring 2024

RELEVANT COURSEWORK :Intro to Computer Science I, II , Data Structure & Algorithms, C & Systems Programming, Discrete Mathematics

CERTIFICATES
- Meta Front-End Developer – Credential ID: PV85YKKE6HME (2023)
  - Principles of UX/UI Design
  - React Basics and Advanced
  - Version Control
  - Programming with JavaScript
  - Front-End Developer Capstone
  - HTML and CSS in depth
  - Introduction to Front-End Development

PROJECTS
University of San Francisco, Class Projects
Birthday Database
- Developed a comprehensive application for efficient management of friends' birthdays, leveraging a linked list.
- Engineered seamless functionality for adding, searching, and deleting entries.
- Introduced sophisticated sorting options for organizing entries alphabetically or chronologically.

Spellchecker
- Developed a spellchecker employing a binary search tree data structure with a user-friendly GUI.
- Conducted thorough word checks against a comprehensive dictionary, highlighting and addressing misspelled words.

Cho Han & Spaceship Game
- Programmed two engaging text-based games, "Cho-Han" and "Spaceship," accessible through a command-line interface.
- Orchestrated the entire gaming experience by managing the game loop and user input using the Driver class.
- Utilized an abstract Game class as a foundational blueprint, enhancing efficiency and code organization.
- Incorporated visually appealing ASCII art to represent Spaceship progress and outcomes, enhancing user engagement.

Personal Project
Sudoku Game
- Created a dynamic and interactive Sudoku game using the Pygame library in Python.
- Designed a user-friendly graphical interface, allowing players to seamlessly interact with the game, including cell selection, number input, and an automated puzzle-solving feature.
- Implemented robust validation mechanisms for entered numbers, ensuring the accuracy and integrity of the gameplay experience.
- Tracked and displayed crucial metrics such as time elapsed and the number of strikes during gameplay, enhancing the overall user experience.