

# Thien An Tran

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## EDUCATION

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California Polytechnic State University San Luis Obispo  
Third Year, B.S., **Software Engineering**, GPA: 3.13

Expected Graduation: June 2024

Glendale High School

Glendale, CA | 2016-2020

## PROJECTS

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### Algorithm Visualizer

- Visualized nearest neighbor and k-means clustering algorithms with Java
- Users can place down points and can select two options
- Nearest Neighbor option connects all the points with a line
- K-means clustering divides the points into two groups (nearest ones have the same color)

### Mini Battleship Game (Full-Stack)

- Worked with three members to develop a battleship game with Java
- Designed the game for two players to connect and play against each other (client/server)
- Applied Model-View-Controller pattern

### UML Tutoring Program (Full-Stack)

- Quarter long project: worked with three members to create an interactive tutoring program that teaches users programming, specifically UML to Code and vice versa
- Applied agile development process, using Scrum, Backlog, etc. (through Taiga.io)
- Helped design the back-end database for login information and queuing problems (**JDBC & MySQL**)
- Worked on the front-end and back-end functionality of the login menu

### Image Blending Program

- Program that takes in two BMP image files and blends them based on a specific ratio
- Works with arbitrary resolution (bilinear interpolation)
- Used: C/C++

## LEADERSHIP EXPERIENCE

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Thai-Vietnamese Student Association | **Board Member, Treasurer**

March 2021-March 2022

- Oversee and manage all money in the club (fundraiser, merch, donations, equipment, events, etc.)
- Coordinated weekly events and activities for members to interact through the celebration of culture

Vietnamese Eucharistic Youth Movement | **Youth Leader**

August 2017-August 2021

- Plan weekly classes and events for youths attending the program
- Train and lead youths to become well-rounded individuals

## SKILLS & KNOWLEDGE

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**Programming Languages:** Python • Java • C/C++ • Assembly (MIPS, LC3) • Racket • JavaScript

**Web & Database:** MySQL • HTML • CSS

**Software:** Unix, Git, Figma, Microsoft Excel, IntelliJ, PyCharm, VSCode

**Relevant coursework:** Data Structures, Design and Analysis of Algorithms, Databases, Systems Programming, Discrete Structures, Java OOP, Computer Organization/Architecture, Software Design and Development, UI/UX Design, Programming languages

**Languages:** Vietnamese • English