

# Thien An Tran

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## EDUCATION

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California Polytechnic State University San Luis Obispo  
Bachelor of Engineering, **Software Engineering**

Expected Graduation: June 2024

Glendale High School

Glendale, CA | 2016-2020

## PROJECTS

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### UML Tutoring Program (Full-Stack)

- Two quarters long project: worked with three members to create an interactive tutoring program that teaches users programming, specifically UML to Code and vice versa in Java
- 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**)
- Used ChatGPT 3.5 Turbo API to generate UML diagram problems
- Worked on the front-end and back-end functionality of the login menu

### Prefix/Postfix Calculator

- Calculator GUI made with JavaFX
- Applied Model-View-Controller, and uses the **Composite** design pattern and the **Strategy** design pattern

### 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++

## 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++ • Assembly (MIPS, LC3) • Racket • JavaScript • HTML/CSS

**Frameworks & Database:** MySQL • React.js

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

**Relevant coursework:** Data Structures, Design and Analysis of Algorithms, Intro to Databases, Systems Programming, Discrete Structures, Object Oriented Programming and Design, Computer

Organization/Architecture, Software Design and Development, UI/UX Design, Programming languages

**Languages:** Vietnamese • English