

Thien An Tran

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EDUCATION

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

Expected Graduation: June 2024

Glendale High School

Glendale, CA | 2016-2020

PROJECTS

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
- Includes a feedback system (for hints and assessment) that finds the difference between the user's solution and the correct solution through graph structures
- 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
- Uses the **Composite** design pattern to store compound expressions as an expression tree
- Uses the **Strategy** design pattern to easily implement switching between parsing techniques (modes)

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

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

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