

Thien An Tran

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EDUCATION

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

Expected Graduation: June 2024

Relevant coursework: Data Structures, Design and Analysis of Algorithms, Intro to Databases, Systems Programming, Discrete Structures, Object Oriented Programming and Design, Software Engineering, Software Design and Development, UI/UX Design, Programming languages

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, HTML/CSS, JavaScript

Frameworks/Technologies: ReactJS, Flask, Unix, MySQL, Git, Figma, Excel, IntelliJ, PyCharm, VSCode, Firebase

Languages: Vietnamese, English

Hobbies: Reading, Volleyball, Video games, Flute, Cooking