

## Thanh-Nha (Tanya) Tran

San Diego, CA 92131

[sdtntran@gmail.com](mailto:sdtntran@gmail.com)

(619) 636-8543

### EDUCATION

#### University of California, San Diego

*Master of Science in Computer Science*, specialization in HCI

San Diego, CA

Expected Graduation June 2025

#### University of California, San Diego

*Bachelor of Science in Computer Science*, Minor in Psychology | GPA: 3.75

San Diego, CA

Expected Graduation June 2024

*Relevant Coursework:* Data Structures and Algorithms. Theory of Computation. Design & Analysis of Algorithms. Software Engineering. Intro to Computer Security. Computer Architecture. Operating Systems. Web Client Languages. AI Search & Reasoning.

### TECHNICAL SKILLS

**Programming Languages:** Java. Python. C/C++. SQL. HTML/CSS. JavaScript. SystemVerilog

**Tools and Technology:** Git. Visual Studio. Copilot. Power BI. Metabase. Jira. Zenhub. Android Studio. Microsoft Suite

### WORK EXPERIENCE

#### Software Engineering Intern

Oct 2023 - Apr 2024

*HM Electronics | Carlsbad, CA*

- Updating and adding new features to wireless team's data analytics website to better track and evaluate system diagnostics, using Postgres, Python, and Metabase.
- R&D for a Significant Events Page to extend analytics website to better visualize important events on a timeline, using HTML, JS, Node. Helps to easily see overview of system's health and diagnose potential errors.

#### Test Data Mining Intern

Jun 2023 - Sept 2023

*HM Electronics | Carlsbad, CA*

- Spearheaded phase 3 of an internal test data tracking website used by engineers. Collaborated with team to gather requirements and design mockups.
- Implemented and debugged enhancements to website using Microsoft SQL, HTML, CSS, and JS, resulting in reduction of software development time from 8 months to just 3 months.
- Produced summary reports using Power BI to support various project needs.

#### Web Development Intern

*Roseys (sustainable sunglass company) | Remote*

Mar 2023 - Sept 2023

- Collaborated with company owner to transition the existing Squarespace website to a Shopify platform, driving a strategic redesign to align with the brand's sustainability focus and appeal to the target audience.
- Developed and tested website, ensuring a seamless transition and improved user experience.

#### Student Research Assistant

Jun 2022 - Sept 2022

*University of California, San Diego | Remote*

- Researched how live programming could benefit program synthesis, specifically Copilot.
- Developed a set of benchmarks of Python code to test Copilot's functionality.
- Designed and integrated new features to an existing live programming environment, Projection Boxes, to better visualize synthesized code from Copilot.

### RESEARCH/PROJECTS

#### PBUnit Project Leader with Early Research Scholars Program

- Collaborated with 2 students to build PBUnit (in Python): a testing framework within an existing live programming environment, Projection Boxes.
- Designed and conducted user studies to examine whether a live programming environment would improve a programmer's testing experience. Created poster to summarize results.
- Accepted into the ACM Student Research Competition at PLDI June 2022.

#### Auditing Safety on YouTube Kids using GPT-3.5

- Collaborated with 3 other students to conduct an audit on YouTube Kids for toxic content, using YouTube's guidelines and LLMs.
- Gathered training, validation, and test videos. Using video transcripts and GTP-3.5 evaluated whether videos are safe or not.

#### ZOOSEEKER Project Manager

- Led a team of 6 members to create a hypothetical app for the San Diego zoo using Android Studio in Java.
- Features include searching for exhibits, creating a plan, getting directions, remapping based on location.