

Tien Thuy Ho

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EDUCATION

- **University of California, Santa Cruz** Santa Cruz, CA
M.S. Computer Science; GPA: 4.0/4.0 09/2017 – 06/2018
- **University of South Carolina, Honors College** Columbia, SC
B.S. Computer Science and Mathematics, French Minor; GPA: 4.0/4.0 08/2013 – 05/2017

EXPERIENCE

- **Senior iOS Software Engineer, EBAY** 08/2018 – Present
 - Responsible for building reusable UI components in both UIKit and SwiftUI, and internal developer tools that facilitate and empower domain engineering. Collaborated closely with principal iOS architects, domain engineers, and designers to ensure quality and consistency in user interface and experience. Established best practices through technical presentations and documentation to increase standardization, confidence, and testability across the app.
 - Implemented a Swift tool using Swift Package Manager APIs to download, localize, and upgrade third-party packages. This tool allows engineers to benefit from popular, well-supported third-party solutions for their feature development without the security risks of using remote packages directly through Xcode.
 - Refactored the implementation of SwiftUI sheets, UIKit form, and collection view components in order to modernize the codebase and reduce tech debt. Advocated for protocol-oriented practices and small/reusable views to make these components more composable and scalable.
 - Led the development of feature toggles to increase confidence in continuous delivery and data-driven features. Also implemented social registration, package tracking, and local pickup experience to improve user engagement and buying/selling experience.
- **Graduate Teaching Assistant, UNIVERSITY OF CALIFORNIA** 09/2017 – 06/2018
 - Supervised lab sections for introduction to Java programming. Worked with students with little to no prior programming experience and helped introduce them to programming and problem solving.
 - Led discussion sections for introduction to algorithmic analysis. Responsible for answering students' online discussion questions regarding homework, class lectures, and exam review.
- **Software Engineering Intern, APPLE** 05/2016 – 08/2016
 - Collaborated with a team of designers and developers to improve a modeling and simulation 3D tool, developed in Unreal Engine, and provide the product development team with a prototyping environment to validate their ideas.
 - Developed an I/O feature, written in C++ and Blueprint, that feeds camera data from a CSV file into the 3D tool to validate and adjust camera arrangement, as well as to visualize each camera's scene capture. This feature also enables saving updated camera values and scene captures for further development.
- **Software Engineer, SYSEDA** 01/2015 – 07/2017
 - Worked with a team of 10 developers to port a C#/Silverlight ship simulation application to Qt for cross-platform deployment. Also implemented missing features to enhance usability and effectiveness in ship design and simulation.
 - Developed, debugged, and maintained a 3D ship design platform using Three.js and other web development libraries including Kendo UI, Knockout.js, and Bootstrap. Implemented important features including path finding, arcball rotation, transform gizmo, collision detection, dynamic mesh generation, and general CRUD.

PROJECTS

- **Tetris-SwiftUI:** Tetris game using SwiftUI and Combine.
- **GTLC:** Interpreter for the gradually-typed lambda calculus using the eager coercion calculus, implemented in Haskell.
- **Safehouse:** 2-player street view game using Google Maps APIs to simulate the classic cat-and-mouse game.
- **fChess:** Online chess game using JavaScript and 2D game framework Phaser.

PROGRAMMING SKILLS

- **Languages:** Swift, Objective-C, Java, JavaScript, HTML5, CSS, Haskell, C++
- **Development Software:** Xcode, Git, Mac OS, Windows, Unix/Linux, Visual Studio
- **Technologies:** UIKit, SwiftUI, SwiftPM, Combine, Angular, Three.js, Bootstrap, Firebase