

# Hang Nguyen

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## EDUCATION

### University of Southern California, Viterbi School of Engineering

Aug 2021–May 2025

Bachelor of Science in Computer Science, Minor in AI Applications

- **GPA:** 3.60
- **Honors:** Viterbi's Dean List 2021-2023
- **Relevant Coursework:** Data Structures and OOP (C++), Algorithms, Principles of Software Development (Java), Basics of AI (Python), Computer Systems (C, Assembly), Embedded Systems (Arduino)

## SKILLS

**Languages:** Python, C++, Java, HTML/CSS, JavaScript, SQL

**Frameworks:** Node.js, React, jQuery, Spring Boot, JUnit, Flask, Scikit-learn, Keras, TensorFlow

**Tools:** GCP, AWS, Firebase, NoSQL, MySQL, Git/Github, Docker

## PROJECTS

### SongMS – Mobile App

- Developed a cross-platform mobile app with React Native that lets users send songs as a form of message
- Implemented geospatial search for nearby users feature using location tracking and websockets with Socket.IO for real-time geohash updates between client and Express server connected to Firestore
- Integrated YouTube Data and Spotify API's for songs' info, OAuth flow, and in-app music streaming

### Trojan Market – Web App

- Built a React web app where USC students and staff can securely make sale postings and contact each other for purchases with features such as Google logins, in-app messaging and seller rating system
- Utilized Redux for front end data storage and data binding, and Axios for API requests
- Created Express server using Model-View-Controller design pattern and Firebase Authentication for authorization middleware. Tested API routes with Postman
- Designed NoSQL database with AWS DynamoDB and S3 to store/retrieve JSON objects and images. Wrote unit tests for database module with Jest

### MeetUp – Web App

- Led database team of 7 for a group project (using Waterfall methodologies) that provides USC students a centralized place to create and RSVP to on/off campus events. Utilized Spring Boot for a REST API hosted on Google Cloud and HTML, CSS, and React.js for frontend
- Delivered and documented a Java package to access and manage MySQL database. Defined unit tests using JUnit and HSQLDB frameworks for package to be integrated into server

### Ukulele Tab – GUI App

- Used WPF framework and Model-View-ViewModel design pattern to create an interactive app for writing ukulele tablatures more efficiently with keyboard shortcuts
- Integrated C#'s audio processing libraries in asynchronous programming to implement features such as a playable virtual ukulele and changing tunings

## WORK EXPERIENCE

### USC Housing Customer Service Center – Student Worker (PT), *Los Angeles, CA*

Jan 2023–Present

- Maintain 50+ packages/mails inventory and handle 20+ residents' requests and concerns daily
- Provide customer service and work with CSC team of 8+ to serve as liaison between residents and housing maintenance team

### Sam's Club – Merchandiser (PT), *El Monte, CA*

May 2021–Jul 2022

- Kept track of inventory of 20+ pallets of clothings, stocked 3+ pallets of items daily and maintained tidiness
- Improved organization of the shoes, undergarments and socks sections in charge and increased merchandising team's productivity