

# Jenny Kim

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## EDUCATION

### University of Southern California

*Bachelor of Science in Computer Science + Minor in Linguistics*

**Aug 2020-May 2024**

GPA: 3.98/4.0

## SKILLS

(*proficient*): Python, C++, Javascript, HTML/CSS (*intermediate*): React, SQL, PHP (*familiar*): MongoDB, Java, Node.js, Git, Linux, TypeScript

## EXPERIENCE

### Viterbi School of Engineering

*Head Teaching Assistant for ITP115: Programming in Python*

**Aug 2021-Present**

*Los Angeles, CA*

- Manage logistics, communication, and scheduling of 30+ teaching assistants and course staff
- Build content for and present midterm and weekly review sessions for 500+ students
- Standardize and update grading rubrics for 20 assignments and labs on a semester basis

*Teaching Assistant for ITP348: Introduction to Electronics*

- Hold weekly office hours to help students with C++ code and debug Particle Argon and hardware issues
- Give feedback for students' individual final projects and assist instructor with improving course curriculum

### L3Harris Technologies

*Software Engineering Intern*

**May 2022-Jul 2022**

*Colorado Springs, CO*

- Implemented a dashboard in frontend React application using Typescript to integrate with backend API
- Developed and wrote tests with 95% code coverage for a backend REST API for handling CRUD applications using NodeJS, Typescript, Express, MongoDB, and Jest
- Utilized Agile methodologies (SCRUM, Jira, Confluence) to collaborate with software engineering team

## PROJECTS

**Personal Website:** [jennykim515.github.io](https://jennykim515.github.io) (for additional information and projects)

**Safest Fridge Tracker** | *HTML/CSS, Javascript, PHP, SQL*

- Developed a responsive full-stack web application to track expiration dates and quantify grocery statistics
- Implemented CRUD functionality and user permission levels with SESSION login and used AJAX calls to display dynamic results to personal dashboard designed with Chart.js library

**Typing Test for Dads** | *React, MongoDB, NodeJS, Netlify, Heroku*

- Created a timed typing test with 5 custom timers using React to fetch and render new text from a Dad Jokes API
- Constructed an API with MongoDB and NodeJS to create a leaderboard of 30 fastest typers

**Touchless Gumball Machine** | *IoT, Cloud Publishing, C++*

- Designed circuit with Fritzing incorporating ultrasonic distance sensor, accelerometer, OLED, and servo motors
- Wired project with the Particle Argon and executed three touchless ways to interact with gumball machine
- Interfaced bluetooth Blynk app and cloud-based IoT dashboard to log data from touchless gumball machine

**Auto Trojan Check** | *Python, Selenium, cron automation*

- Automated cron task of executing Python script to fill out online questionnaire and save four minutes daily
- Wrote Python script to email the QR code generated from completing Trojan Check to user's email inbox

## INVOLVEMENT

### USC Makers

*Embedded Developer*

**Aug 2021-Present**

*Los Angeles, CA*

- Collaborate with a team of 12 for a year long project as an embedded developer to connect a compost tumbler on USC campus to an IoT-powered dashboard to display health state of compost
- Devise C++ code for Particle Boron to publish sensor data utilizing cellular and regularly sleep to save power

**Hackathons** (*Scope, DubHacks, Hack IoT*)