


# 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 (basic): MongoDB, Java, Node.js, Git, Linux, TypeScript

## EXPERIENCE

### L3Harris Technologies

Software Engineering Intern

May 2022 – Present

Colorado Springs, CO

- Developed and wrote tests for a backend API for handling CRUD applications using NodeJS, Typescript, Express, MongoDB, and Jest
- Implemented a feature in existing React application using Typescript to make API calls and display results on dashboard

### Viterbi School of Engineering

Head Teaching Assistant for ITP115: Programming in Python

Aug 2021 – Present

Los Angeles, CA

- Developed the course website using HTML/CSS and Javascript used by 500+ students every semester
- Manage logistics and scheduling of 30+ teaching assistants and course staff
- Host weekly review sessions covering the fundamentals of programming, hold office hours, and grade assignments

Course Producer for ITP348: Introduction to Electronics

- Hold weekly office hours to help students program in C++ and debug hardware issues
- Grade exams, programming assignments, and individual final projects

### USC Makers

Embedded/Software Developer

Aug 2021 – Present

Los Angeles, CA

- Worked in a team for a year long project as a software developer to connect a compost tumbler on USC campus to an IoT-powered dashboard to display health state of compost
- Developed C++ code for Particle Boron to publish sensor data to the cloud and regularly sleep to save power

### Interaction Robotics Lab

Summer Research Program Participant

June 2021 – Dec 2021

Remote

- Wrote documentation about the usability of the OpenSense framework and Microsoft Psi with a computer science capstone team by testing and documenting speech recognition, movement detection, and other pipelines in the UI
- Worked with a PhD student on research project involving helping students with autism learn using socially assistive robots and presented at REU meetings

## PROJECTS

### Safeat Fridge Tracker | HTML/CSS, Javascript, PHP, SQL, Bootstrap

- Designed wireframes and developed a responsive full-stack web application that tracks expiration dates of food
- Implemented CRUD functionality and user permission levels with SESSION login and used AJAX to display dynamic results to personal dashboard

### Typing Test for Dads | React, MongoDB, NodeJS, Netlify hosting, Heroku

- Created a timed typing test using React that fetches and renders new text from a Dad Jokes Api
- Deployed an API with MongoDB and NodeJS to create a leaderboard of fastest typers

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

- Designed a circuit with Fritzing and implemented project with the Particle Argon and physical parts including the ultrasonic distance sensor, accelerometer, Micro OLED, and Servo Motors
- Synced bluetooth Blynk app and a cloud-based IoT dashboard that logs data from the touchless gumball machine

### Gender Prediction with Bayes Classifier | Python (pandas, numpy), Naive Bayes, Machine Learning

- Implemented the Naive Bayes algorithm to predict the gender of an author given text data using the bag-of-words model
- Cleaned 600,000 rows of data from the Kaggle Blogtext dataset using pandas and numpy and improved accuracy of predictions to 70%