

# Pranav Sankar Srinivasan

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## Education

### University of California, Los Angeles

Los Angeles, CA

B.S. COMPUTER ENGINEERING, GPA 3.7/4.0

June 2023

- **Honors** — Fast Track Honors Program, Dean's Honor List
- **Relevant Coursework** — Data Structures & Algorithms, Software Construction, Operating Systems, Computer Architecture, Internet of Things, Digital Logic Design

## Skills

**Languages** Python, C/C++, JavaScript, SQL, Swift, HTML, CSS

**Frameworks + Tools** Flask, Swagger, React, MySQL Workbench, Postman, Firebase, Bootstrap, Git, Node Package Manager, UIKit, CocoaPods

## Experience

### Tesla

Fremont, CA

SOFTWARE ENGINEER INTERN - PYTHON, FLASK, SWAGGER, SQL, KAFKA

June 2021 - September 2021

- Implemented a RESTful API with auto-generating documentation that can process 100 requests in 1.5 seconds to reduce application response latency
- Migrating an application and establishing a Kafka consumer pipeline to balance the load between messaging systems
- Added security enhancements and UI updates to numerous applications in order to strengthen data access control

### Robotics and Mechanisms Laboratory (RoMeLa)

Los Angeles, CA

UNDERGRADUATE RESEARCHER - HTML, CSS, PYTHON, FLASK

October 2019 - Present

- Developing website to interface with an autonomous cooking robot and using Flask to host the website locally on the central Raspberry Pi unit
- Implemented serial communication capability between Raspberry Pi and Arduino to monitor sensor data

## Leadership

### UCLA IEEE

Los Angeles, CA

EXTERNAL VICE PRESIDENT

April 2021 - Present

- Organizing the largest hardware hackathon on the west coast, IDEA Hacks (150+ participants)
- Previously Corporate Relations Officer: hosted industry events with prominent partners for 300 members and fundraised \$7000 for IDEA Hacks

## Projects

### Code Crumbs

JAVASCRIPT, REACT, FIREBASE, POSTMAN, CHROME API

- Developed Chrome extension that allows users to track search history in detail to aid the software development process
- Implemented sign-in/login functionality using Firebase Authentication and capability to toggle the extension on/off

### Insta-Chef

JAVASCRIPT, REACT, PYTHON, FIREBASE, MEALDB API

- Created web application that enables users to discover new culinary recipes by name or ingredient and track all items in kitchen
- Constructed React components to display various information and added front-end features to simplify the process of tracking ingredients

### DisCovr

JAVASCRIPT, BOOTSTRAP, SPOTIFY API

- Built a web application that enables Spotify users to find new songs not based on their prior listening history
- Devised a song search query algorithm that randomly selects new songs efficiently and produced an intuitive interface for easy navigation of the app

### Power Shower

C, ARDUINO - RUNNER-UP FOR "SUSTAINABILITY AWARD" AMONGST 60 PARTICIPATING TEAMS

- Ideated and prototyped an IoT smart shower timer hub in 36-hour hackathon to raise awareness of water consumption in college dorms
- Integrated Bluetooth communication between Arduinos to allow for devices to join the IoT ecosystem