

# Pranav Sankar Srinivasan

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## EDUCATION

### University of California, Los Angeles

Los Angeles, CA

*Bachelor of Science in Computer Engineering, Fast Track Honors Program*

*Sept. 2019 – June 2023*

- GPA: 3.7/4.0
- Relevant Coursework: Advanced Algorithms, Operating Systems, Computer Architecture, Digital Logic Design

## EXPERIENCE

### Tesla

June 2021 – Sept. 2021

*Software Engineering Intern*

*Fremont, CA*

- Implemented a RESTful API for a factory software application that can process 100 requests in 1.5 seconds
- Deployed API with auto-generating Swagger documentation used by thousands of engineers to production
- Migrated application and established a Kafka consumer pipeline to load balance between event streaming systems
- Added security enhancements and UI updates to numerous applications in order to strengthen data access control

### Robotics and Mechanisms Laboratory

Oct. 2019 – Present

*Undergraduate Researcher*

*Los Angeles, CA*

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

## LEADERSHIP

### IEEE

Apr. 2021 – Present

*External Vice President*

*Los Angeles, CA*

- Organizing the largest hardware hackathon on the west coast, IDEA Hacks (200+ participants)
- Hosted industry events with industry partners for 300 members and fundraised \$7000 for IDEA Hacks

## PROJECTS

### Code Crumbs | *JavaScript, React, Firebase, Postman, Chrome API*

- Chrome extension that tracks search history alongside Github commits to aid the software development process
- Implemented sign-in/login functionality via Firebase Authentication and capability to toggle the extension on/off

### Insta-Chef | *JavaScript, React, Python, Firebase, mealDB API*

- Created web application that allows users to find culinary recipes by name or ingredient and track items in kitchen
- Constructed React components to display recipe information
- Added front-end features to simplify 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
- Produced an intuitive interface for easy navigation of the app

### Power Shower | *C, Arduino*

- Prototyped an IoT smart shower timer in 36-hour hackathon to raise awareness of water consumption in dorms
- Runner-up for “Sustainability Award” amongst 60 participating teams
- Integrated Bluetooth communication between Arduinos to allow for devices to join the IoT ecosystem

## TECHNICAL SKILLS

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

**Frameworks:** Flask, React, Swagger, Bootstrap, UIKit

**Developer Tools:** Git, MySQL Workbench, Postman, Firebase, VS Code, Node Package Manager, Cocoapods