

# Chandra Suresh

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## EDUCATION

**University of California, Los Angeles**, B.S. Computer Engineering | Expected graduation of June 2023  
3.90 GPA | Member of Electrical and Computer Engineering Dept.'s Fast Track honors program (top 7% dept. freshmen)

## EXPERIENCE

### Software Developer Intern — LA Blueprint

November 2020 - Present

- Developing React web application for Farm2People, a 501(c)(3) nonprofit aiming to create a direct supply chain between farmers and clients – targeting underserved communities and food insecurity programs
- Frontend and backend implementation of login/signup pages and user authentication pipeline for different classes of users, with a tech-stack of React.js, Airtable, and Airlock.

### Software Developer — Visual Machines Group, UCLA

June 2020 - Present

- Wrote a Python program that tracks a subject's heart rate through video input, by analyzing the subtle rhythmic motions of the head
- Wrote textbook exercises and Python solutions for ECE 239AS: Computational Imaging (a graduate computer vision course), regarding surface reconstruction through photometric stereo, and hyperspectral image reconstruction through Gauss-Newton nonlinear optimization, etc.

## PROJECTS

### Kumbayuni Repository Project – Language: Python, SQL, HTML

July 2020 - Present

- Built a webapp that serves as a consolidated database for online lecture recordings from various courses and institutions, using Flask for backend, a SQLite database, and HTML for frontend
- Built a highly accurate automated anonymizer (optimized for Zoom recordings), written in Python, that censors faces and other identifying information present in the recordings
- <https://kumbayuni.herokuapp.com/>

### Goober Eats: GPS Optimizer – Language: C++

January 2020

- Tool that optimizes deliveries to various locations Los Angeles from a central depot, and outputs optimal step by step street directions from the different locations along route; uses custom hashmap implementation
- Used algorithms in C++ including simulated annealing to find the best path, and programmed in Linux environment

### Low Poly Compression – Language: Python

March 2020 - April 2020

- Wrote Python script incorporating OpenCV libraries that converts images and videos into poly art
- Implemented preprocessing of image (or frame), edge detection algorithm, optimized node locations for polygon vertices, then ran Delaunay Triangulation algorithm to generate triangles across the image

## SKILLS

Python, C++, Java, SQL, Bash

Computer Vision

Git, Flask, Linux, React.js

## AWARDS

### Innovation in Control Award

Won in FRC (a national robotics competition) for our robot's superior vision capabilities

### UCLA Dean's List Award

Awarded all quarters, for holding a 3.75+ GPA

## RELEVANT COURSEWORK

CS 111: Operating System Principles

CS 35L: Software Construction Laboratory

EE 102: Signals and Systems

CS 33: Computer Organization

CS 32: Data Structures and Algorithm (C++)

CS M51A: Logic Design/Digital Systems

## OTHER CLUBS/ACTIVITIES

UCLA ACM Hack: Officer