

# Jushen Dhillon

Los Angeles, CA 90007 | jushen.dhillon@gmail.com | (949) 531-8565  
linkedin.com/in/jushendhillon | github.com/jushendhillon9

## EDUCATION

### University of Southern California

B.S. in Computer Science and Business Administration

Start: January 2024

### University of California, Davis

B.S. in Biomedical Engineering  
GPA: 3.55

September 2022 - June 2023

### Sage Hill High School

Weighted GPA: 4.37; Unweighted GPA: 3.93

June 2022

## RELEVANT COURSEWORK

### UCI Full-Stack Coding Bootcamp

UCI & edX, June - December 2023

- Completed an intensive full-stack coding bootcamp and gained proficiency in front-end and back-end technologies.
- Applied agile methodology to collaborate with project members, honing problem-solving and team work skills in work environment.

### CS 175: C++ Programming

Golden West College, June - August 2022

- "A" grade.

## PROJECTS

### The Crypto-Zone

- Created front-end web application to enable better exploration and analysis of cryptocurrency data through visualizations, personalized data monitoring tools, and pertinent news articles using JavaScript, HTML, Bulma CSS Framework, CoinGecko and Finnhub APIs, Chart.js, and Github Pages.

### Bug-Crushers

- Developed a full-stack application with a focus on monthly challenges aimed at boosting user's daily step counts. Implemented key features, including a dynamic leaderboard and detailed step breakdown section, fostering user motivation towards achieving their monthly fitness objective. Employed Node.js and Express.js to establish RESTful APIs, complemented by Sequelize and Handlebars.js for steady functionality.

### Feature Project

- Built using MongoDB, Express.js, React, Node.js, and more. MVP completed by December 14th.

## ACTIVITIES

### Algae to Insulin

BioInnovation Group, December - April 2023

- Transferred DNA fragments into *C. reinhardtii* with supervision of Ph.D. students.
- Shadowed lysing of DNA fragments and prepared petri dishes with chloroplast culture to record insulin protein expression levels.

### Research Training Program

BioInnovation Group, October - November 2022

- Attended weekly lab meetings to complete modules to acquire expertise in essential laboratory instruments
- Demonstrated how to create reproducible microliter-scale dilutions, operated a thermocycler and prepared agarose gel for DNA electrophoresis, and practiced micropipetting for PCR.

### Orange County Science & Engineering Fair

Orange County CA, Spring 2018

1st Place Award Winner for "The New Fuel: Microalgae."

- Designed and conducted experiment.
- Determined best microalgae strain to convert to biofuel.
- Competed at state level.

## PUBLICATIONS

### Pandemics: Catalysts for Change (ISBN: 9798472395663)

June 2020 - September 2021

Author

- Researched scholarly articles.
- Edited, revised, and published a book to shed light on human evolution.

### Guide to Sustainable Living in Orange County

September 2020 - March 2021

Co-Author

- Researched and shared findings with co-author.
- Collaborated to draft chapters.
- Edited, revised, and published guide.

## SKILLS & HONORS

**Software:** Java, JavaScript, React, Express, JQuery, Bootstrap, SQL, Sequelize, Mongoose, Chart.js, Jest, webpack, C++, Excel

**Lab:** PCR Machine, Micropipette, Gel electrophoresis

Orange County Science and Engineering Fair 1st Place & Scholarship Award from Office of Naval Research