

Jushen Dhillon

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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

July - October 2023

- 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 FintHub APIs, Chart.js, and Github Pages.

Bug Crushers

October - December 2023

- Developed a full-stack application with a focus on monthly challenges aimed at boosting user's daily step counts. Implemented a leaderboard and step breakdown page to foster user motivation to achieve a monthly fitness objective. Employed Node.js and Express.js to establish RESTful APIs, uses Sequelize and Handlebars.js for steady functionality.

Just You

November - December 2023

- A full-stack youtube companion application that allows for users to search, save, and annotate videos seamlessly. Built using a MongoDB backend, a GraphQL API, and an Express.js/Node.js server, complemented by a React frontend. User authentication is implemented using JWT

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, GraphQL, 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