

Jushen Dhillon

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EDUCATION

University of Southern California

B.S. in Computer Science and Business Administration

Expected Graduation: December 2026

University of California, Davis

Pursued B.S. in Biomedical Engineering | Transferred

September 2022 - June 2023

GPA: 3.55

SKILLS

Software: Java, C++, JavaScript, React, SQL, Sequelize, Mongoose, MongoDB, Express, GraphQL, Bootstrap, Chart.js, Web APIs, JQuery, Jest, Webpack, Excel

Teamwork: Agile Methodology and Scrum Methodology

Lab: PCR Machine, Micropipette, Gel electrophoresis

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 web development technologies.
- Applied agile methodology to collaborate with project members, honing problem-solving and teamwork skills in a professional 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 Finnhub 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

- Produced a full-stack youtube companion application for users to search, save, and annotate videos seamlessly. Built using a MongoDB backend, GraphQL API, and an Express.js/Node.js server. Utilized React.js to complement a front-end. User authentication is implemented using JSON Web Tokens.

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 to determine optimal microalgae strain for biofuel conversion.
- Competed at state level.

PUBLICATIONS

Pandemics: Catalysts for Change (ISBN: 9798472395663)

September 2020 - March 2021

Author

- Researched scholarly articles.
- Edited, revised, and published a book covering healthcare advances in response to global pandemics.

SKILLS & HONORS

Orange County Science and Engineering Fair 1st Place

Scholarship Award from Office of Naval Research