# Jushen Dhillon

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## EDUCATION

**University of Southern California**                                     Expected Graduation: June 2027

B.S. in Computer Science and Business Administration

**University of California, Davis**                                     September 2022 - June 2023

Pursued B.S. in Biomedical Engineering | Transferred

GPA: 3.6

## SKILLS

**Software:** Java, C++, JavaScript, Spring Boot, React, FHIR Resources, SQL, Sequelize, Mongoose, MongoDB, Express, GraphQL, Bootstrap, Chart.js, Web APIs, Jquery, Jest, Webpack, Gradle/Maven

**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

**FhirConverter App**                                     June - August 2024

- Developed a full-stack FHIR Converter application enabling users to upload and convert files containing multiple FHIR resources to a Google Cloud FHIR dataset. Utilized a Java Spring Boot backend for handling file uploads and the Google Cloud Healthcare API along with Google OAuth Login  for resource management. Implemented advanced FHIR search functionalities and enabled creation of  specific FHIR resources like Conditions and Prescriptions. Integrated several React components and contexts to display patient data dynamically.

**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.

**Bug Crushers**                                     October - December 2023

- Built 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.

**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.

## ACTIVITIES

**Intern @ Acumen Velocity**                                     **Acumen Velocity,** June - August 2024

- Worked under supervision of software development team for Acumen Velocity
- Learned fundamentals and produced functioning application with FHIR (Fast Healthcare Interoperability Resources)
- Attended standup meetings as an intern

**Algae to Insulin**                                     **BioInnovation Group,** December - April 2023

- Transferred DNA fragments into C. Reinhardtii with supervision of Ph.D. students.
- Shadowed DNA fragment lysing 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.

## 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.