

SAZEDA SULTANA

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Education

Master of Science | August 2020 – July 2022 | California State University, Fullerton

- ♦ Major: Software Engineering

Bachelor of Science | September 2017 – August 2020 | University of California, Irvine

- ♦ Major: Informatics (Specialization in Organizations and Information Technology)

Graduated with Phi Beta Kappa

Graduated with Honors in Information and Computer Science

Associate of Science | December 2014 | Los Angeles City College

- ♦ Major: Computer Science

Graduated with Summa Cum Laude

Associate of Science | June 2017 | Los Angeles City College

- ♦ Major: Mathematics and Natural Science

Graduated with Magna Cum Laude

Technical Skills

Programming Languages: HTML, CSS, JavaScript, C++, Java, Python, MySQL

Concepts: UI/UX, Web Design, UX Research, Software Engineering, Front-End Development, QA Testing, Sketch, Prototype, Mock-Up, User-Flow, Persona, User-Story, Project Management, AWS, Agile, CMMI, AJAX, JSON, Rest API, Scrum, Extreme Programming

Software: Bootstrap, React, Angular, Vue, Sass, Android, WordPress, Docker, WebStorm, VSCode, Adobe, Figma, Mockplus, Moqups, Axure, Git, GitLab, Jira, Office 365, Confluence, Atlassian

Honors and Awards

University of California, Irvine

- ♦ Member of Phi Beta Kappa Honor Society | 2021 – CURRENT
- ♦ Donald Bren School of Information and Computer Science Honors Program Student | 2019 – 2020
- ♦ Undergraduate Research Opportunities Program Fellow | 2020
- ♦ Campuswide Honors Collegium Student | 2017 - CURRENT
- ♦ Regents Scholar | 2017 | 2018

◆ Deans Honor List | Spring 2019 | Fall 2019 | Winter 2020

◆ Honors Courses

- I&C SCI H197 - Honors Seminar
- IN4MATX H198 – Honors Research
- HUMAN H80 – Exploring Memory

Los Angeles City College

◆ Member of the Ralph Bunche Scholars Program | 2014 - 2017

◆ President's Honors List | Fall 2011 | Spring 2012 | Fall 2012

◆ Full-Time Dean's Honor List | Spring 2017

◆ Part-Time Dean's Honor List | Spring 2011 | Fall 2011 | Spring 2012 | Fall 2012 | Spring 2014 | Fall 2015 | Spring 2016

◆ Honors Courses

- Physics 011 - Introductory Physics
- Physics 102 - Physics for Engineers and Scientists II
- Physics 103 - Physics for Engineers and Scientists III
- Math 261 - Calculus I
- Math 262 - Calculus II

West Los Angeles College

◆ Part-Time Dean's Honor List | Fall 2014

Research Experience

University of California, Irvine

What Design Features Can Motivate Children to Use Educational Technologies at a Higher Rate?

- ◆ Supervisor: Professor Gloria Mark

Paper Browser Tool

- ◆ Supervisor: Professor Daniel Epstein

Published Research Paper

- ◆ Mapping and Taking Stock of the Personal Informatics Literature @ <https://dl.acm.org/doi/abs/10.1145/3432231>

Los Angeles City College

Honors research paper on electricity and magnetism

- ◆ Supervisor: Professor Derrick Kiley

Honors research paper on magnetic forces and fields

- ◆ Supervisor: Professor Derrick Kiley

Honors research paper on black hole facts

- ◆ Supervisor: Professor Derrick Kiley

Honors research paper on mathematicians' contributions to theories of derivatives

- ◆ Supervisor: Professor Ronald Kendis

Honors research paper on mathematicians' contributions to theories of integration

- ◆ Supervisor: Professor Ronald Kendis

Work Experience

Software Engineering Intern | T-Mobile | May 2021 – Current

**Webmaster | California State University, Fullerton - Titan Communications | Fullerton, CA
January 2021 – Current**

<https://www.titanradio.org/> | <https://www.titanuniverse.org/>

- ◆ Redesigned and maintained titanradio.org and titanuniverse.org using WordPress CMS, HTML, CSS, and JavaScript.
- ◆ Conducted ATI scanning and redeveloped sites to confirm that the sites meet WACG standard
- ◆ Created pages for titanuniverse.org using various plugins and themes and resolved error issues on the current sites.

**Web Development Intern | California State University, Fullerton - Titan Communications | Fullerton, CA
August 2020 – December 2020**

<https://www.titanradio.org/> | <https://www.titanuniverse.org/>

- ◆ Assisted in designing and maintaining titanradio.org and titanuniverse.org

UX/UI Design Intern | Ziggurat Technologies Inc. | San Francisco (Remote) | September 2020 – October 2020

Undergraduate Researcher, UX/UI Designer, Front-End Developer | UC Irvine Department of Informatics | Irvine, Ca | January 2020 – June 2020

- ◆ Annotated and categorized research papers from the Association of Computing Machinery (ACM) library to design focused on studying and designing for health and wellness domains and applied the findings on a web app called Paper Browser Tool.
- ◆ Redesigned the user interface of the app through conducting low to high fidelity mockups for superior user experience and implemented the design in the app with research paper browsing functionalities with HTML, CSS, and Angular.

Project Leader, UX/UI Designer, Front-End Developer | Paciolan | Irvine, CA | January 2020 – June 2020

- ◆ Lead a group of 5 skilled software engineering students to create a Supplemental Data Management Tool (SDM) web app that allows Paciolan's clients to manage the metadata of their events.
- ◆ Conducted UX research and created a UX mockup for the search page.
- ◆ Redesigned the search page for SDM UI to allow for searching via different keywords, implemented a search-result page, and built components for front-end client-side features with HTML, CSS, JavaScript, and React.

STEM Transfer Peer Mentor | UCI Student Success Initiatives | June 2019 – June 2020

- ◆ Advocated mentees from the School of Information and Computer Science for their academic accomplishment with help with IT internship, research, commuting, or living on campus, and shared ideas for participation and involvement on campus.
- ◆ Referred ICS mentees to on-campus resources and responded to inquiries about student life at UCI.
- ◆ Provided them assistance and direction for superior success in Computer Science and Engineering classes and future careers.

Honors Peer mentor Program Coordinator | UCI Campuswide honors Collegium (CHC) | April 2019 – April 2020

- ◆ Coordinated CHC Peer Mentor Program and trained honors mentors.
- ◆ Planned events for CHC freshmen and transfer peer mentors and created the pairings between mentors and mentees.

Honors Peer Mentor | UCI Campuswide Honors Collegium | June 2018 – April 2020

- ◆ Assisted in planning and organizing community events for CHC students.
- ◆ Developed relationships with mentees to understand their challenges and provided support to fulfill their goals and overcome challenges.

Campus Climate Intern | Associated Students @UCI | September 2018 – September 2019

- ◆ Created tangible projects to make sure that UC Irvine is a space of safety and support for marginalized identities such as women, black, Latina, AAPI, LGBTQ, immigrant students, international students, and

undocumented students. Addressed issues that these communities face to ensure everyone feels safe, supported, and welcomed at UC Irvine.

Mathematics Tutor | Los Angeles City College | February 2013 – August 2017

- ◆ Helped students get better achievement in their math classes such as algebra, trigonometry, calculus.
- ◆ Motivated a wide range of students toward their math success through interpersonal communication and collaboration.

Projects

PIC Cafeteria Ordering System Web App

- ◆ Built an application that enables users to order a meal from a restaurant or cafeteria and has that order delivered to the customer's location in such a way that the process is as efficient as possible.
- ◆ Created use-case diagram, user interface, hardware interfaces, software interfaces, communication interfaces, performance requirements, safety requirements, security requirements, software quality attributes, traceability matrix (Use-cases and FRs), functional modeling (DFDs), class diagrams.

Bubble Sort Mobile App

- ◆ Created a bubble sort mobile application focusing on the software development process.
- ◆ Looked for weaknesses and improvement points in our current process comparing with CMMI using the IDEAL model and SCAMPI appraisal.

What Design Features Can Motivate Children Use Educational Technologies at a Higher Rate?

- ◆ Investigated entertaining and educational technology use patterns in children and scrutinized features of them by applying mix-methods with field research, surveys, interviews, and observation.
- ◆ Discovered qualities in existing technologies for children that meets their need and motivates them using it.
- ◆ Produced mockups of the design of future educational technology for children created with the superior features largely adopting from entertaining technologies that children admired.

Redesigning Supplemental Data Management Tool: A Web App Development

- ◆ Lead a group of 5 to create a web app that allows Paciolan's clients to manage the metadata of their events.

- ◆ Redesigned the search page for SDM UI to allow for searching via different keywords.
- ◆ Created a UX mockup for the search page. The search page has an input box that allows the user to search based on event-name, event-code, season-name, and season-code.
- ◆ Implemented search-result page from front-end client-side features with HTML, CSS, JavaScript, and React.
- ◆ Produced data table to display, and sort the list of events below the search area with the fields being visible such as event start-date, event-name, season-name, event-code, and season-code.
- ◆ Constructed filtering options for SMS, Barcode Sharing, and NFC in the search result table.
- ◆ Built components for the search result page using React.

Redesigning Paper Browser Tool: A Web App Enhancement

- ◆ Redesigned a web app through conducting low to high fidelity mockups for better UX.
- ◆ Annotated and categorized research papers from the Association of Computing Machinery (ACM) library to design with a focus on studying and designing for health and wellness domains with an emphasis on understanding and overcoming barriers to data collection and reflection.
- ◆ Implemented the design in the app for better user experience with research paper browsing functionalities with HTML, CSS, and Typescript.

History App

- ◆ Conducted interaction design of a new piece of software that captures the online history of websites.
- ◆ Conducted stakeholder research for the application.
- ◆ Created architecture design for the app such as storing the tracked webpage states in a cloud-based database, HTML parsing algorithm, the Cloud Vision API, and the Cloud Natural Language API.
- ◆ Created two different versions of mockup demonstrating suggested user interface design for the app.

Ant-Mental Health App

- ◆ Conducted requirement elicitation for the app.
- ◆ Created rich picture – stakeholder model for the app.
- ◆ Conducted stakeholder analysis.
- ◆ Created goal - oriented analysis model including goal model diagram for the application.

Redesigning Freerice.com: User Experience Design and Engineering

- ◆ Conducted competitive analysis on freerice.com.
- ◆ Understood it's potential users, and other stakeholders through interviews and surveys.

- ◆ Identified and characterized usability issues of the system through usability experiment and cognitive walkthrough.
- ◆ Redesigned aspects of the user experience of freerice.com through sketching, wireframing, storyboarding, and creating mockups based on evidence generated.
- ◆ Evaluated the usability of the redesign through heuristic evaluation, synthesis, editing, and proofreading.

Scrutinizing Google Shared Drives: Google drive from Computer-Supported Collaborative Work Perspective

- ◆ Investigated features in Google drive that lead to workflow disruptions such as lack of organizational features, communicational capabilities for collaboration, workspace awareness, etc.

Technological Determinism: Impact of Social Media in Our Society

- ◆ Conducted a video project on how social media shapes human thoughts and behavior and how it causes various changes in humans and society.

StudentAssistantSystem: A New Single Interface for Managing Student Data from Multiple-Systems

- ◆ Created precise requirements specification of a new system to simplify a complicated task of running a Junior High School's students' data by conversion from manual work to an app.

PeekPeek Website Advancement

- ◆ Built a new desktop website for a premium 360° company specializing in fully customizable VR tours called PeekPeek with a unique horizontal scrolling feature to improve usability and to have a smoother experience.
- ◆ Implemented vertical scrolling functionality for the mobile website.
- ◆ Added separate pages to the app.
- ◆ Added image carousel and who, what, why sub-pages using Vue.js.