SUZANNA J. SIM

📞 (408) 318-1066 | ✉ sjsim@ucdavis.edu | 🌐 suzannasim.com
📍 Permanent Address: 4716 Lago Vista Cir. San Jose | Local Address: 606 Alvarado Ave. Apt. 56 Davis, CA

Education

University of California, Davis   *Expected Graduation: June 2020*
    B.S. in Materials Engineering, emphasis in Mechanical Engineering
    Minor in Computer Science

Skills

Technical: ReactJS, NodeJS, SQL, Oracle Databases, Solidworks, Python, HTML, CSS, Javascript, Bootstrap, MATLAB
Fabrication: Lathes, Mills, Drill Presses, Band Saws, Tensile Testers
Graphics: Adobe Photoshop, Adobe Illustrator, Adobe InDesign, Adobe Premiere, Wordpress, Squarespace, Social Media
Languages: Spanish (proficient), Korean (fluent), English (fluent)

Experience

Advanced Modeling Aeronautics Team (AMAT)   *September 2017– Present*
-worked with two other students to design and model a fully functioning model airplane fuselage utilizing Solidworks
-researched and implemented balsa wood with carbon fiber layups for the fuselage and wings
-utilized 3D printing, water jet cutting, and other manufacturing tools to create parts for the fuselage

Engineering Intern - UC Davis Utilities Department   *May 2018 - Present*
-Developing front and back end for a database management webpage managing utility meters and their metadata
-Writing Web API in React.JS, Node.JS, and AngularJS
-Writing queries in SQL Server and Oracle Database and automating Excel tasks

Laboratory Assistant - Nanomaterials in the Environment, Agriculture, and Technology (NEAT-ORU)   *November 2017 - Present*
-Extracting and compiling data information from research papers to create the first ever high temperature melt solution excel database for calorimetry researchers across the United States, China, Germany, and Israel.

Web Development Teaching Assistant - UC Davis Engineering Student Startup Center   *January 2018 - June 2018*
-Developing and executing a course plan for a 6 week web development and launching workshop to instruct 100+ students the basics of HTML, CSS, Javascript, JQuery, Bootstrap, React JS, and Git.

Student Assistant - UC Davis Center for Integrated Computing and STEM Education (C-STEM)   *August 2017 - December 2017*
-Operated the UC Davis C-STEM website utilizing HTML/CSS and Wordpress
-Utilized Ch (language created by Professor Harry Cheng) and RoboBlockly to create drag and drop coding assignments to assist middle school students with math
-Designed the 2017 C-STEM Conference brochure pamphlet with Adobe Illustrator and Adobe InDesign

Other

Theta Tau, co-ed professional engineering fraternity   *September 2016– Present*
-Vice President
-Fundraising Chair
-Public Relations Chair

Material Advantage Student Chapter (MASC)   *September 2016– Present*
-active member

Archery   *June 2009– Present*
-sponsored by Win&Win, 2015 USA Team, 2015 Youth Worlds Team Member, Junior Dream Team Member, 2015 Grand National Champion