# SUZANNA J. SIM

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## Education

**University of California, Davis** *Expected Graduation: June 2020*
Bachelor of Science in Materials Engineering, emphasis in Mechanical Engineering
-Coursework: Properties of Materials, Statics, General Physics, General Chemistry, Python

## 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

**Materials Testing Engineering Intern - Graniterock** *June 2018 - September 2018*

**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

**Advanced Modeling Aeronautics Team (AMAT)** *September 2017– Present*
-designed and modeled a fully functioning model airplane utilizing Solidworks (CAD)
-cut, created, and built parts using machinery and 3D printing
-researched materials for optimal functionality, worked with Carbon Fiber, plastics, and metals

**Theta Tau, co-ed professional engineering fraternity** *September 2016– Present*
-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