

Nathan Nguyen

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EDUCATION	B.S.E Computer Science & Biomedical Engineering Tulane University, New Orleans, LA	Minor: Math	Ex: May 2019 4.0 GPA
	<p>Academic Honors: 2017-2018 Maker of the Year ♦ 2017 Honors Summer Research Program ♦ Tau Beta Pi Treasurer (Honors Engineering Society) ♦ Hans B. Schubert and Renate E. Schubert Memorial Scholarship ♦ Leonie and Gus Mayor Scholarship ♦ Dean's Honor Scholarship ♦ Dean's List</p> <p>Notable Coursework: Computer Systems and Networking ♦ Software Studio ♦ Intro to Machine Learning ♦ Intro to Artificial Intelligence ♦ Human Anatomy Lab ♦ Biomedical Signals and Systems</p>		
EXPERIENCE	<p>Undergraduate Researcher Tulane Biomolecular and Functional Imaging Laboratory (Dr. Carolyn Bayer) ♦ Wrote LabVIEW program to interface laser and ultrasound systems to aid in the acquisition of spectral photoacoustic images ♦ Thesis in progress on applying CNN for faster placental image segmentation</p> <p>Rapid Prototyping Technician Tulane University MakerSpace ♦ Expedited rapid prototyping process for clients by assisting with the operation of laser-cutters, 3D printers, and other rapid prototyping tools ♦ Certified on all MakerSpace tools (including CNC Mill and Lathe) ♦ Trained users on how to safely and effectively use tools in the MakerSpace</p> <p>Medical Simulation Intern Tulane Center for Advanced Medical Simulation ♦ Developed trainers for tourniquet, injection, and incision and drainage training ♦ Improved previous designs by increasing realism, decreasing cost by 50% by implementing reusable components, and designing for easy clean up ♦ Employed 3D modeling and printing, silicone casting and mold making techniques, and resin casting to create components for each trainer</p> <p>Intro to Computer Science I/II TA Intro to Machine Learning TA General Chemistry Lab II Grader General Chemistry Lab I TA Tulane University</p>	Jan 2017-Present New Orleans, LA	Aug 2017-Present New Orleans, LA
ACADEMIC PROJECTS	<p>Software Studio ♦ Developed a website with Ruby on Rails framework ♦ Applied machine learning to classify image subjects ♦ Used pivotal tracker for agile project management ♦ Evaluated the performance of paradigms such as sparse network and random forest algorithms</p> <p>Machine Learning</p>	Jun 2018-Aug 2018 New Orleans, LA	Jan 2018-May 2018 Aug 2017-Dec 2017 Jan 2017-May 2017 Sept 2016-Dec 2016 New Orleans, LA
LEADERSHIP	<p>Tulane Science Scholars Program (TSSP) Intern Tulane University K-12 STEM Outreach ♦ Responsible for the welfare of 40 high school students living in on-campus dorms ♦ Scheduled weekly field trips, study breaks, and events for students in the program</p> <p>Makers and Robotics Society (President/Cofounder) ♦ Developed laser-cutting and Arduino workshops for Tulane community ♦ Organized meetings, set overarching goals, and set a budget for the club</p> <p>K-12 STEM Outreach Volunteer ♦ Independently created welcome table activity for engaging students at GiST/BATS ♦ Designed trophy for annual GNOSEF Tulane Science Scholars Program Scholarship</p>	Jun 2017-Jul 2017 New Orleans, LA	Sept 2016-Present
TECHNICAL SKILLS	<p>Programming: LabVIEW ♦ MATLAB ♦ Java ♦ Python ♦ C ♦ C++ ♦ Ruby ♦ HTML ♦ CSS ♦ Haskell</p> <p>Software: SolidWorks ♦ Fusion 360 ♦ COMSOL ♦ Inkscape ♦ Microsoft Office</p>	Oct 2016-Present	