

## Nima Mousavi

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<b>SUMMARY</b>	Looking for a software engineering summer internship position.		
<b>EDUCATION</b>	<b>University of California, San Diego</b> , La Jolla, CA	2015-2020 (Expected)	
	<i>PhD</i> , Electrical and Computer Engineering Research: Bioinformatics and Population Genetics	GPA: 3.85	
	<b>Sharif University of Technology</b> , Tehran, Iran	2011-2015	
	<i>BSc</i> , Electrical Engineering	GPA: 3.94	
<b>SKILLS</b>	<ul style="list-style-type: none"><li>• Strong background in computer programming and object oriented C++ and Python.</li><li>• Deep mathematical and probabilistic knowledge and experienced in theoretical problem analysis.</li><li>• Profound knowledge of algorithms and data structures and demonstrated proficiency in problem solving by deriving creative and innovative solutions.</li><li>• Excellent teamwork and leadership skills, shown as constructive cooperation with colleagues.</li></ul>		
<b>PUBLICATIONS</b>	<b>N. Mousavi</b> , B. Aksanli, A. Akyurek, T. Rosing. Accuracy-Resource Tradeoff for Edge Devices in Internet of Things, <i>SmartEdge'17</i> , in conjunction with <i>IEEE PerCom'17</i> .		
<b>EXPERIENCE</b>	<b>Genotyping STR Expansions</b> , UC San Diego, La Jolla, CA	Feb 2017 - Ongoing	
	<ul style="list-style-type: none"><li>• Development of software tool for accurately genotyping short tandem repeats from aligned short read sequencing data.</li><li>• Derived maximum likelihood model and local realignment of paired-end reads.</li><li>• Implemented with object oriented C++ after prototyping with Python.</li><li>• Validated using simulated data, and currently testing on whole genome and whole exome datasets.</li></ul>		
	<b>Context Engine</b> , UC San Diego, La Jolla, CA	May 2016 - Nov 2016	
	<ul style="list-style-type: none"><li>• Developed the object oriented design of a modular middleware for IoT.</li><li>• Supervised development of machine learning code and system integration.</li><li>• Implemented embedded system interface with local sensors and actuators and cloud-based database.</li><li>• Showcased the capability of system using an end-to-end application alongside poster presentation.</li></ul>		
	<b>Teaching Assistant</b>	Sep 2014 - Mar 2017	
	<i>Components and Design Techniques for Digital Systems</i>	UC San Diego	
<b>RELEVANT COURSEWORK</b>	<i>Computer Structures and <math>\mu</math>Processors Lab (Lead Assistant)</i>	Sharif Univ. of Tech.	
	<i>Principles of Electrical Engineering</i>	Sharif Univ. of Tech.	
	<ul style="list-style-type: none"><li>• Clarified lecture material for students by holding well-received discussion sessions.</li><li>• Communicated with students and provided mentoring and advising.</li></ul>		
	<b>Volunteer Work</b> , Iranian Student Association, UC San Diego	May 2016 - Present	
	<ul style="list-style-type: none"><li>• Vice President (May 2017-Present), Financial Director (May 2016-May 2017)</li><li>• Collaborated with university officials, other board members, and volunteers in holding events with upwards to 300 attendance from the community.</li></ul>		
	• Algorithm Design	• Object Oriented Programming	• Population Genetics
	• Machine Learning	• Princip. of AI: Prob. Reasoning	• Statistical Learning