

Nima Mousavi

+1 (858) 291-2083
mousavi@ucsd.edu
<http://nmmsv.com>

UC San Diego
9500 Gilman Drive
La Jolla, CA, 92093-MC 0639

SUMMARY	Looking for a research or software engineering internship position.		
EDUCATION	University of California, San Diego , La Jolla, CA	2015-2020 (Expected)	
	PhD, Electrical and Computer Engineering Research focus: Bioinformatics and Population Genetics	GPA: 3.85	
	Sharif University of Technology , Tehran, Iran	2011-2015	
	BSc, Electrical Engineering	GPA: 3.94	
SKILLS	<ul style="list-style-type: none">• Strong background in computer programming and object oriented C++ and Python.• Deep mathematical and probabilistic knowledge and experienced in theoretical problem analysis.• Profound knowledge of algorithms and data structures and demonstrated proficiency in problem solving by deriving creative and innovative solutions.• Excellent teamwork and leadership skills, shown as constructive cooperation with colleagues.		
PUBLICATIONS	<i>Accuracy-Resource Tradeoff for Edge Devices in Internet of Things</i> , N. Mousavi , B. Aksanli, A. Akyurek, T. Rosing, IEEE Smart Edge 2017		
EXPERIENCE	Genotyping STR Expansions , UC San Diego, La Jolla, CA	Feb 2017 - Ongoing	
	<ul style="list-style-type: none">• Development of software tool for accurately genotyping short tandem repeats from aligned short read sequencing data.• Created a maximum likelihood model based on local realignment of paired-end reads.• Implemented using object oriented C++ after prototyping with Python.• Validated using simulated data, and currently testing on whole genome and whole exome datasets.		
	Context Engine , UC San Diego, La Jolla, CA	May 2016 - Nov 2016	
	<ul style="list-style-type: none">• Developed the object oriented design of a modular middleware for IoT.• Supervised development of machine learning code and system integration.• Implemented embedded system interface with local sensors and actuators and cloud-based database.• Showcased the capability of system using an end-to-end application alongside poster presentation.		
	Teaching Assistant	Sep 2014 - Mar 2017	
	<i>Components and Design Techniques for Digital Systems</i> <i>Computer Structures and μProcessors Lab (Lead Assistant)</i> <i>Principles of Electrical Engineering</i>	UC San Diego Sharif Univ. of Tech. Sharif Univ. of Tech.	
	<ul style="list-style-type: none">• Clarified lecture material for students by holding well-received discussion sessions.• Communicated with students and provided mentoring and advising.		
	Volunteer Work , Iranian Student Association, UC San Diego	May 2016 - Present	
	<ul style="list-style-type: none">• Vice President (May 2017-Present), Financial Director (May 2016-May 2017)• Collaborated with university officials, other board members, and volunteers in holding events with upwards to 300 attendance from the community.		
RELEVANT COURSEWORK	<ul style="list-style-type: none">• Algorithm Design• Object Oriented Programming• Population Genetics• Machine Learning• Princip. of AI: Prob. Reasoning• Statistical Learning		