

# Lucy K Tan

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lucyktan.github.io

646 496 5523

Case Western Reserve University – Cleveland, OH  
B.S., Computer Science (minor in Artificial Intelligence)  
August 2012 – May 2017 (expected)

Stuyvesant High School – New York, NY  
High School Diploma  
September 2008 – June 2012

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SKILLS	Java, SQL, Git, Matlab, HTML, CSS, PHP (Laravel), Python (Django), Scala, Swift	
AWARDS	<b>Google Firebass Challenge 2016</b>	First 100 people worldwide to complete the challenge for free admissions to Google I/O 2017
	<b>Intel Science Talent Search (Westinghouse; Regeneron) 2012 Semi-finalist</b>	Top 300 research papers submitted to nation's most prestigious pre-college science competition
WORK	<b>Software Engineering Intern @ macys.com</b> (San Francisco, CA)	Jun 2016 – Aug 2016
	Analyzed customer problems, proposed solutions, and delivered prototype of augmented reality cosmetics application to over 100 executives, managers and macys.com employees. Delivered features for real-time data dashboard via system decomposition and MVC in Scala.	
	<b>Instructor @ Tech Corps</b> (Cleveland, OH)	Sep 2015 – present
	Gave weekly lessons to a class of twenty 3 <sup>rd</sup> -6 <sup>th</sup> graders based on national CSTA standards, covering topics such as computer programming, hardware, and web development.	
	<b>Research @ Stem Cell and Engineered Novel Therapeutics Lab</b>	Sep 2013 – Aug 2014
ACTIVITIES	Preparation, execution, and analysis of experiments for a vascularized bone tissue engineering project at the Department of Biomedical Engineering at Case Western Reserve University.	
	<b>Research @ Experimental Pathology Lab</b> (Cleveland, OH)	Sep 2012 – May 2013
	Genotyping, breeding, and maintenance of over 800 mice in 50 mice strains at any given time for use in immunology experiments at research hospital of Case Western Reserve University.	
	<b>Research @ Biomechanics/Mechanotransduction Lab</b> (New York, NY)	Mar 2011 – Dec 2011
	Designed and conducted an independent project on the effects of mobile phone radiation at the Department of Biomedical Engineering at Columbia University.	
PROJECTS	<b>Mentor @ Women in Science and Engineering Roundtable</b>	Sep 2014 – present
	Mentor first-year women undergraduates in STEM fields. Volunteer at outreach activities for K-12 girls to participate in STEM.	
COURSES	<b>Certified Tax Preparer @ Internal Revenue Service (IRS)</b>	Feb 2016 – present
	<b>Disaster Reporting System</b> (Django application)	Jan 2016 – May 2016
	Predicts expected federal aid for households affected by natural disasters, using FEMA open data	
	<b>Snackr</b> (Laravel application)	Aug 2015 – Dec 2015
	Suggests healthy food items based on user's food history, allergies, and recommended daily values	
	<b>It Takes a Village</b> (Unity3D application)	Jan 2015 – May 2015
	Therapeutic game to relieve symptoms of parents suffering from postpartum depression	
	Data Structures, Algorithms, Databases, Data Mining, Software Engineering, Theoretical CS, Multivariate Calculus, Differential Equations, Statistics, Discrete Mathematics.	
	<i>In Progress:</i> Networks, Artificial Intelligence, Software Craftsmanship	

Last Updated: July 2016