

# Lucy K Tan

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lucykthan.github.io

<b>Education</b>	<b>Case Western Reserve University – Cleveland, OH</b> <i>B.S., Computer Science (minor in Artificial Intelligence)</i> August 2012 – May 2017 (expected)	<b>Stuyvesant High School – New York, NY</b> <i>High school diploma</i> September 2008 – June 2012
<b>Projects</b>	<b>Disaster Reporting System (DRS)</b> • A Django application that predicts expected federal aid for households affected by natural disasters in the United States, using open data provided by FEMA <b>Snackr</b> • A dietary health web application built with PHP that suggests healthy food items based on user's food history, food allergies, and recommended daily nutritional values <b>It Takes A Village</b> • A therapeutic game built in Unity3D for parents with postpartum depression	Jan 2016 – May 2016 Aug 2015 – Dec 2015 Jan 2015 – May 2015
<b>Skills</b>	Java, Matlab, HTML/CSS, PHP (Laravel), SQL, LaTeX, Git, C#, Unity3D, Origin, ImageJ	
<b>Coursework</b>	Data Structures, Algorithms, Databases, Software Engineering, Data Mining, Theoretical Computer Science, Game Design and Implementation, Multivariate Calculus, Differential Equations, Statistics. <i>In Progress:</i> Networks, Artificial Intelligence, Software Craftsmanship	
<b>Experience</b>	<b>macys.com</b> San Francisco, CA  <b>Tech Corps</b> Cleveland, OH • Gave weekly lessons to a class of twenty 3 <sup>rd</sup> -6 <sup>th</sup> graders based on national CSTA Computer Science standards, covering topics such as computer programming, hardware, and web development  <b>Alsberg Stem Cell and Engineered Novel Therapeutics Lab</b> Case Western Reserve University – Cleveland, OH • Prepared and conducted experiments towards a project on controlled growth factor release via microspheres in 3D cell culture for vascularized bone tissue engineering • Troubleshoot new protocols, analyzed results, and presented biweekly project reports  <b>Experimental Pathology Lab in the Dept of Pathology</b> Case Western Reserve University – Cleveland, OH • Genotyped, bred, and maintained over 50 different mice strains and a total of over 800 mice at any given time to be used in immunology experiments at the Animal Resource Center • Extensive use of organizational skills and oversight of a large mice database  <b>Biomechanics and Mechanotransduction Lab</b> Columbia University – New York, NY • Designed and conducted an independent research project on the effects of mobile phone radiation on human keratinocyte migration <i>in vitro</i> • Received the Intel Science Talent Search (Westinghouse) 2012 semi-finalist award	June 2016 – Aug 2016 <i>Software Engineering Intern</i>  Sep 2015 – Dec 2015 <i>Instructor</i>  Sep 2013 – Aug 2014 <i>Research Assistant</i>  Sep 2012 – May 2013 <i>Research Assistant</i>  Mar 2011 – Dec 2011 <i>Research Assistant</i>
<b>Activities</b>	<b>Women in Science and Engineering Roundtable – Mentor and Member</b> • Mentor first-year female undergraduates in STEM fields • Volunteer at outreach activities for K-12 girls to participate in STEM  <b>Internal Revenue Service (IRS) – Certified Tax Preparer</b>	Sep 2014 – present Feb 2016 – present