

# Lucy K Tan

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lucyktan.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>Snackr</b> <i>(in progress)</i> <ul style="list-style-type: none"><li>A dietary health web application built with PHP and MySQL that suggests healthy food items based on user's food history, food allergies, and recommended daily nutritional intake</li></ul> <b>It Takes A Village</b> lucyktan.github.io/ItTakesAVillage <ul style="list-style-type: none"><li>A therapeutic game built in Unity3D for parents with postpartum depression</li></ul>	Aug 2015 – present <i>Developer</i>  Jan 2015 – May 2015 <i>Developer and Designer</i>
<b>Coursework</b>	<i>Computer Sci.</i> Data Structures, Algorithms, Database Systems, Software Engineering, Theoretical Computer Science, Game Design and Implementation <i>Mathematics</i> Multivariate Calculus, Differential Equations, Statistics, Discrete Mathematics <i>In Progress</i> Artificial Intelligence, Data Mining	
<b>Skills</b>	<i>Primary</i> Java <i>Proficient</i> Matlab, HTML/CSS, PHP (Laravel), SQL, LaTeX, Git, C#, Unity3D, Origin, ImageJ <i>In Progress</i> C, Python	
<b>Experience</b>	<b>Tech Corps</b> Cleveland, OH <ul style="list-style-type: none"><li>Give 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</li></ul> <b>Alsberg Stem Cell and Engineered Novel Therapeutics Lab</b> Case Western Reserve University – Cleveland, OH <ul style="list-style-type: none"><li>Prepared and conducted experiments towards a project on controlled growth factor release via microspheres in 3D cell culture for vascularized bone tissue engineering</li><li>Troubleshoot new protocols, analyzed results, and presented biweekly project reports</li></ul> <b>Experimental Pathology Lab in the Dept of Pathology</b> Case Western Reserve University – Cleveland, OH <ul style="list-style-type: none"><li>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</li><li>Extensive use of organizational skills and oversight of a large mice database</li></ul> <b>Biomechanics and Mechanotransduction Lab</b> Columbia University – New York, NY <ul style="list-style-type: none"><li>Designed and conducted an independent research project on the effects of mobile phone radiation on human keratinocyte migration <i>in vitro</i></li><li>Received the Intel Science Talent Search (Westinghouse) 2012 semi-finalist award</li></ul>	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> <ul style="list-style-type: none"><li>Mentor first-year female undergraduates in STEM fields</li><li>Volunteer at outreach activities for K-12 girls to participate in STEM</li></ul> <b>Case Emergency Medical Services – Shift Officer</b> <ul style="list-style-type: none"><li>Responded to medical emergencies, and transported patients to local hospitals</li></ul>	Sep 2014 – present  Sep 2012 – May 2014