Lucy K Tan

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Case Western Reserve University – Cleveland, OH	Stuyvesant High School – New York, NY
B.S., Computer Science (minor in Artificial Intelligence)	High School Diploma
August 2012 – May 2017 (expected)	September 2008 – June 2012

SKILLS Java, SQL, Git, Matlab, HTML, CSS, PHP (Laravel), Python (Django), Scala, Swift

AWARDS

Google Firebass Challenge 2016
First 100 people worldwide to complete the challenge for free admissions to Google I/O 2017

Intel Science Talent Search (Westinghouse; Regeneron) 2012 Semi-finalist
Top 300 research papers submitted to nation's most prestigious pre-college science competition

WORK

Software Engineering Intern @ macys.com (San Francisco, CA)   Jun 2016 – present
Analyze customer problems, propose solutions, and deliver prototype of augmented reality cosmetics application via iOS development in Swift
Deliver features for real-time data dashboard via system decomposition and MVC in Scala

Instructor @ Tech Corps (Cleveland, OH)   Sep 2015 – Dec 2015
Weekly lessons to a class of twenty 3rd-6th graders based on national CSTA standards, covering topics such as computer programming, hardware, and web development

Research @ Stem Cell and Engineered Novel Therapeutics Lab   Sep 2013 – Aug 2014
Preparation, execution, and analysis of experiments for a vascularized bone tissue engineering project at the Department of Biomedical Engineering at Case Western Reserve University

Research @ Experimental Pathology Lab (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

Research @ Biomechanics/Mechanotransduction Lab (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

ACTIVITIES

Mentor @ Women in Science and Engineering Roundtable   Sep 2014 – present
Mentor first-year women undergraduates in STEM fields
Volunteer at outreach activities for K-12 girls to participate in STEM

Certified Tax Preparer @ Internal Revenue Service (IRS)   Feb 2016 – present
Complete tax returns for low-income families in Cleveland, OH

PROJECTS

Disaster Reporting System (Django application)   Jan 2016 – May 2016
Predicts expected federal aid for households affected by natural disasters, using FEMA open data

Snackr (Laravel application)   Aug 2015 – Dec 2015
Suggests healthy food items based on user's food history, allergies, and recommended daily values

It Takes a Village (Unity3D application)   Jan 2015 – May 2015
Therapeutic game to relieve symptoms of parents suffering from postpartum depression

COURSES Data Structures, Algorithms, Databases, Data Mining, Software Engineering, Theoretical CS, Multivariate Calculus, Differential Equations, Statistics, Discrete Mathematics.
In Progress: Networks, Artificial Intelligence, Software Craftsmanship

Last Updated: July 2016