

Education

Case Western Reserve University – Cleveland, OH

B.S., Computer Science, with additional coursework in Biomedical Engineering

August 2012 – January 2017 (expected)

Stuyvesant High School – New York, NY

High school diploma

September 2008 – June 2012

Coursework

Computer Sci. Matlab, Java, Data Structures, Theoretical Computer Science, Computer Organization Logic Design, Game Design and Implementation

Mathematics Calculus I & II for Engineers, Multivariate Calculus, Differential Equations, Statistics for Engineering and Science, Discrete Mathematics, Logic

In Process Algorithms, Computer Networks, Operating Systems, Database Systems, Software Engineering

Relevant Skills

Primary Java

Proficient Matlab, LaTeX, Git, C#, C, HTML/CSS, JavaScript, Verilog
Unity3D, Origin, ImageJ

Projects

It Takes A Village

Jan 2015 – May 2015

lucyktan.github.io/ittakesavillage

Game Developer and Designer

- A therapeutic game built in Unity3D for parents with postpartum depression
- Produced by 10 game developers and designers, and 5 psychology students

Experience

Alsberg Stem Cell and Engineered Novel Therapeutics Lab

Sep 2013 – Aug 2014

Case Western Reserve University – Cleveland, OH

Undergraduate Research Assistant

- Prepared and conducted experiments towards a project on controlled growth factor release via microspheres in 3D cell culture for vascularized bone tissue engineering
- Attended weekly lab group meetings and presented biweekly project reports

Experimental Pathology Lab in the Dept of Pathology

Sep 2012 – May 2013

Case Western Reserve University – Cleveland, OH

Undergraduate Research Assistant

- Genotyped, bred, and maintained over 50 different mice strains to be used in immunology experiments at the Animal Resource Center and Dirty Quarantine Room

Biomechanics and Mechanotransduction Lab

Mar 2011 – Dec 2011

Columbia University – New York, NY

Research Assistant

- Designed and conducted an independent research project on the effects of mobile phone radiation on human keratinocyte migration *in vitro*
- Received the Intel Science Talent Search (Westinghouse) 2012 semi-finalist award

Activities

Women in Science and Engineering Roundtable (WISER)

Sept 2014 – present

Case Western Reserve University – Cleveland, OH

Undergraduate Mentor and Member

- Mentored first-year undergraduate women in science and engineering
- Provided science experiment demonstrations to young girls in local schools