

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

Projects

A Year Of.

(in progress)

Aug 2015 – present

Developer and Designer

- A social good iOS app for philanthropy and a better educated global citizenry

It Takes A Village

lucyktan.github.io/ItTakesAVillage

Jan 2015 – May 2015

Developer and Designer

- A therapeutic game built in Unity3D for parents with postpartum depression

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 Progress

Algorithms, Computer Networks, Operating Systems and Concurrent Programming, Database Systems, Software Engineering

Skills

Primary

Java

Proficient

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

In Progress

Python, Linux/UNIX, SQL

Experience

Alsberg Stem Cell and Engineered Novel Therapeutics Lab

Case Western Reserve University – Cleveland, OH

Sep 2013 – Aug 2014

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

Case Western Reserve University – Cleveland, OH

Sep 2012 – May 2013

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

Columbia University – New York, NY

Mar 2011 – Dec 2011

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 – Mentor and Member

Sep 2014 – present

Case Emergency Medical Services – Shift Officer

Sep 2012 – May 2014

CWRU Fencing Club – Foil Fencer

Sep 2012 – May 2013