

# MATTHEW LEE

COMPUTER SCIENCE UNDERGRADUATE, 2019.  
matthewjunelee.com

## EXPERIENCE

### JHU ELECTRICAL ENGINEERING DEPT.

Baltimore, MD  
Summer 2016

### UNDERGRADUATE RESEARCH ASSISTANT

Conducted research using signal processing to analyze heart sounds so that doctors can more accurately conduct heart auscultation.

Researched current heart sound segmentation and analysis techniques that used wavelet decomposition and wavelet transform.

Collaborated with JHU Dept. of Mechanical Engineering, Johns Hopkins School of Medicine Dept. of Pediatrics.

### JHU COMPUTER SCIENCE DEPT.

Baltimore, MD  
2016 - present

### INTRO JAVA PROGRAMMING (600.107) T.A.

Responsible for grading assignments, leading labs, holding office hours and review sessions.

### STUDENTS CONSULTING FOR NONPROFIT ORGANIZATIONS

Baltimore, MD  
2015 - present

### CONSULTANT

Provides consulting pro bono to nonprofit organizations including Meals on Wheels. Specializes in website and multimedia development, client information storage, and fundraising strategies.

## PROJECTS

### SPEECH BANANA

Baltimore, MD  
2016 - present

### MOBILE DEVELOPER

Training application for people learning to hear with a cochlear implant or digital aid. Currently works on and learning iOS maintenance and Android development. <http://speechbanana.jhu.edu>

### URBAN HELP PROJECT

Philadelphia, PA  
Fall 2016

### WEB BACKEND DEVELOPER

The concept of UHP is for users to collect and input information about local residents afflicted by homelessness near the JHU campus in an effort to deliver the data to local nonprofit organizations. Learned MongoDB and Node.js at PennApps XIV to create Urban Help Project.

<http://devpost.com/software/urbanhelpproject>

## EDUCATION

### JOHNS HOPKINS UNIVERSITY

Baltimore, MD  
2015 - 2019

### COMPUTER SCIENCE, COMPUTER ENGINEERING (B.S.)

Relevant Coursework: Intro to Java, Intermediate Programming (C/C++), Data Structures, User Interfaces and Mobile Applications, Automation and Computation Theory, Discrete Mathematics, Differential Equations, Linear Algebra, Digital Systems Fundamentals, Circuits.

Proficient: Java, C, C++, Javascript.      Familiar: iOS, Android.

GPA: 3.3

### LAKE SIDE SCHOOL

Seattle, WA  
2011-2015

School in Seattle, Washington. Varsity lacrosse, Student Government.