

# Sander Lanbo SHI

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## EDUCATION

### CARNEGIE MELLON UNIVERSITY

Pittsburgh, PA

#### B.S. COMPUTER SCIENCE MINOR IN MATHEMATICS

Class of 2019

GPA 3.07/4.0

Units 240/360

## COURSEWORK

### COMPUTER SCIENCE

- Imperative Programming
- Functional Programming
- Introduction to Computer Systems
- Great Theoretical Ideas in CS
- Parallel and Sequential Data Structures and Algorithms
- Computer Vision
- Machine Learning

### MATHEMATICS

- Concepts of Mathematics
- Calculus in Three Dimensions
- Matrices and Linear Transformations
- Introduction to Probability Theory

## SKILLS

### COMPUTER

Languages

- C
- C++
- SML
- Python

Web Development

- HTML5, CSS3 & SCSS
- ASP.NET
- Angular 2
- Meteor

### NATURAL LANGUAGES

- English
- Mandarin

### OTHER

- Piano (15 years)
- Guitar (2 years)
- Street Trials Bike Stunts (2 years)

## WORK EXPERIENCE

### SOFTWARE ENGINEER | TUXLAB

May 2016 - August 2016 | Pittsburgh, PA, USA

- Developed the front-end of the app using Angular 2 Meteor and Angular 2 Material.
- Wrote data validation, publication and subscription code.
- Learned to use the Angular 2 framework, Typescript, and MongoDB.

### SOFTWARE ENGINEER | HUNDSUN TECHNOLOGIES INC.

September 2014 - October 2014 | Hangzhou, Zhejiang, China

- Tested socket programs for bugs.

### HARDWARE ENGINEER | EGO CORPORATIONS

June 2014 - August 2014 | Hangzhou, Zhejiang, China

- Fixed computers (swapped out hardware and installed operating systems).
- Built over 100 computers for companies and individuals.

## PROJECTS

### UNIVERSITY CLUB WEBSITE

Fall 2016 | CMU Summit Club Website

Designed and made the club website of CMU Summit.

### LOCAL WEATHER DATA COLLECTOR

Spring 2016 | Team Project | Carnegie Mellon University

Built a module using Photon boards and customized PCB boards that collected weather data and sent the data to a website during CMU Build 18.

### ANDROID GAME: TARTAN TAGS

Fall 2015 | Team Project | Carnegie Mellon University

Created an Android game mimicking the "Lazer Tag" game using bar-code scanning at the HackCMU Hackathon with a team of four people.

### ENGLISH CLUB WEBSITE FOR HIGH SCHOOL

Summer 2014 | Individual Project | The High School Affiliated to Zhejiang University

Designed and built a dynamic website for my English club in high school using ASP.Net, HTML5, CSS3, Javascript, bootstrap, C#, and SQL.

## EXTRA-CURRICULUM ACTIVITIES

### • Ballroom Dancing

2016 - Present | Participated in the ballroom dancing club at CMU.

### • Theatre Tech

2016 - Present | Am a member of the lighting crew and sound crew in the Scotch'n'Soda Theatre at CMU.

### • Competitive Programming

2011 - Present | Attended *Algorithms With a Purpose* (Oct. 2015) and *Bloomberg CodeCon* (Nov. 2015). Attended a Visual Basic Contest and won second prize, solved 30 problems on Project Euler.

### • Debate

2012 - 2015 | Went to four debate tournaments around China, and won a quarter finalist prize along with two best speaker prizes.

### • English Club President

2012 - 2014 | Held club events and organized activities twice a week and directed and acted in English plays.

### • Bike Stunt Club

2013 - 2014 | Founded a bike stunt club and taught members how to perform tricks on street bikes.