

# Sander Lanbo SHI

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## EDUCATION

### CARNEGIE MELLON UNIVERSITY

B.S. COMPUTER SCIENCE

MINOR IN MATHEMATICS

Class of 2019 | 237 / 360 Units

## 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\*
- Artificial Intelligence\*

(\* : In progress)

### MATHEMATICS

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

## SKILLS

### COMPUTER

Languages

- C/C++
- SML
- Python
- Matlab/Octave
- Javascript

Web Development

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

### NATURAL LANGUAGES

- English
- Mandarin

## WORK EXPERIENCE

### OPENCHIRP | FRONT-END DEVELOPER (PART-TIME)

January 2017 - Present | Pittsburgh, PA, USA

- Developing the front-end of the OpenChirp website, using Angular 2.

### TUXLAB | SOFTWARE ENGINEERING INTERN

May 2016 - August 2016 | Pittsburgh, PA, USA

- Helped develop the app using Angular 2 Meteor.

### HUNDSUN TECHNOLOGIES INC | SOFTWARE ENGINEERING INTERN

September 2014 - October 2014 | Hangzhou, Zhejiang, China

- Tested socket programs for bugs.

## PROJECTS

### SEARCHING ALGORITHM

Spring 2016 | Team Project | Algorithms with a Purpose Competition

Designed and implemented a searching algorithm to find resources in a 2D grid and return them back to base within a certain number of steps. 6th place among 24 teams.

### CMU SUMMIT WEBSITE

Fall 2016 | CMU Club Website

Designed and developed the club website of CMU SUMMIT.

### LOCAL WEATHER DATA COLLECTOR

Spring 2016 | Team Project | CMU Build-18

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 | HackCMU Hackathon

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

## EXTRA-CURRICULUM ACTIVITIES

### CMU Sahara | 2017 - Present

Member of the CMU Sahara dance group.

### Music | 2001 - Present

Have been playing the piano since 2001 and the guitar for two years.

### Theatre Tech | 2016 - 2017

Member of the lighting crew in the Scotch'n'Soda Theatre at CMU.

### Public Forum 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/acted in English plays.

### Bike Stunt Club Founder | 2013 - 2014

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