

Sander Lanbo SHI

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EDUCATION

CARNEGIE MELLON UNIVERSITY
B.S. COMPUTER SCIENCE
MINOR IN MATHEMATICS
Class of 2019

COURSEWORK

COMPUTER SCIENCE

- Imperative Programming [15-122]
- Practical Ideas in CS [15-131]
- Functional Programming [15-150]
- Computer Systems [15-213]
- Theoretical Ideas in CS [15-251]
- Parallel Algorithms* [15-210]
- Computer Vision* [16-385]
- Artificial Intelligence* [15-381]

(* : In progress)

MATHEMATICS

- Concepts of Math [21-127]
- Calculus in 3D [21-259]
- Matrix Algebra [21-241]
- Probability Theory [36-225]

SKILLS

COMPUTER

Languages

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

Web Development

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

NATURAL LANGUAGES

- English
- Mandarin

WORK EXPERIENCE

OPENCHIRP | RESEARCH ASSISTANT

January 2017 - Present | Pittsburgh, PA, USA

- Developing the OpenChirp website using Angular 2.
- Used REST APIs to communicate with the back-end.

TUXLAB | SOFTWARE ENGINEERING INTERN

May 2016 - August 2016 | Pittsburgh, PA, USA

- Developed a teaching tool using Angular 2 and Meteor.
- Open-source development.
- Will be used to teach Linux courses.

HUNDSUN TECHNOLOGIES INC | SOFTWARE ENGINEERING INTERN

September 2014 - October 2014 | Hangzhou, Zhejiang, China

- Tested socket programs for bugs.

PROJECTS

SEARCHING ALGORITHM

Spring 2017 | 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. **1st place for 4 out of 5 rounds.**

CMU SUMMIT WEBSITE

Fall 2016 | CMU Club Website

Designed and developed the club website of CMU Summit, which helped students browse and sign up for courses. (<https://www.cmu.edu/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.

EXTRACURRICULAR 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.