Sander Lanbo SHI

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EDUCATION

CARNEGIE MELLON UNIVERSITY
Pittsburgh, PA
B.S. Computer Science
Class of 2019
GPA 3.0/4.0
Units 186/360

COURSEWORK

COMPUTER SCIENCE
• Great Practical Ideas for Computer Scientists
• Principles of Imperative Computation
• Principles of Functional Programming
• Introduction to Computer Systems
• Great Theoretical Ideas in Computer Science

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

SKILLS

COMPUTER
Languages
• Typescript
• Javascript
• C/C++
• SML
• Python
Web Development
• HTML5, CSS3 & SCSS
• ASP.NET
• Angular 2
• Meteor
• MongoDB

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.

C++ PROGRAMMER | Hundsun Technologies Inc.
September 2014 – October 2014 | Hangzhou, Zhejiang, China
• Learned and became fluent in bash.
• 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.

PROJECT EXPERIENCE

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.