

# ZHE CHEN

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## EDUCATION

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### **Carnegie Mellon University**

Master of Science in Mechanical Engineering  
Department of Mechanical Engineering  
College of Carnegie Institute of Technology  
Overall QPA: 3.77/4.00

*December 2016*

*Pittsburgh, PA*

### **Zhejiang University**

Bachelor of Engineering in Energy and Environmental System Engineering  
Department of Energy Engineering  
Overall GPA: 3.68/4.00

*June 2015*

*Hangzhou, China*

## ACADEMIC PROJECTS

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### **Fundamental of Programming**

*Carnegie Mellon University*

Sept 2015 - Dec 2015

*Pittsburgh, PA*

- Designed and implemented a game based on Pygame and PyKinect module which users can control the car through kinect to race and hit high scores.

### **Introduction to Computer System**

*Carnegie Mellon University*

Jan 2016 - June 2016

*Pittsburgh, PA*

- Implemented a unix shell which can do process control, signal handling and IO direction/redirection.
- Implemented a dynamic storage allocator which can do malloc, free, realloc and calloc functions.
- Implemented a proxy which can cache web objects and deal with multiple open connections.

### **Android Fitness App**

*Carnegie Mellon University*

March 2016 - June 2016

*Pittsburgh, PA*

- Designed and Implemented an Android app names Fitness Moment which can help users schedule their daily fitness, food menu and give feed back about their daily activities.
- Performed database connection and queries using MySQL on the back end.
- Java, android, SQLite, HTML, MySQL

### **Variational Shape Approximation**

*Carnegie Mellon University*

March 2016 - June 2016

*Pittsburgh, PA*

- Studied and implemented the certain method to approximate complex 3D datasets and reduce the computational cost of graphics applications.
- Developed a c++ program with OpenGL with this certain method.

### **Django-based Website**

*Carnegie Mellon University*

Sept 2016 - Sept 2016

*Pittsburgh, PA*

- Designed and built a website names Grumblr using Django framework of Python and made good use of Ajax.
- Implemented the interactive features that users can post short messages and see others' posts and like or dislike the certain posts.

## SKILLS

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**Programming/Scripting Languages:**  
**Frameworks and tools:**

Java, Python, C++, JavaScript, SQL, MATLAB,HTML  
Django, GIT