

# ZHENG ZHANG

E-Mail: zhangzheng199203@gmail.com ♦ Tel: (412)-576-8347

Address: 2 Bayard Rd Apt 47 Pittsburgh, PA 15213

## EDUCATION

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**Carnegie Mellon University, Pittsburgh, PA**  
Carnegie Institute of Technology, GPA: 3.67/4.00

Sep 2015 - Dec 2016(expected)

**Tianjin University, Tianjin, China**  
School of Science, GPA: 3.64/4.00

Sep 2011 - Jul 2015

## SKILLS

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<b>Programming</b>	Proficient : Python, Java, HTML, CSS, JavaScript, BootStrap, jQuery, MySQL, Node.js Familiar : C/C++, AJAX, MongoDB, Express.js, Django, AngularJS, AWS, EMR, Big Data
<b>Software</b>	Adobe PhotoShop, Adobe Illustrator

## LINKS

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<b>LinkedIn</b>	<a href="https://www.linkedin.com/in/zhengzhang1992">https://www.linkedin.com/in/zhengzhang1992</a>
<b>GitHub</b>	<a href="https://github.com/xiaokelunjian">https://github.com/xiaokelunjian</a>
<b>Web-App Gallery</b>	<a href="http://www.routetheworld.com">http://www.routetheworld.com</a>

## COURSEWORK

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**Carnegie Mellon University**  
Cloud Computing; Client-Side Web Technologies; Data Structures for Application Programmers;  
Introduction to Machine Learning(current); Fundamentals of Programming

## PROJECTS

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<b>TinyURL Web App</b>	Oct 2016 - Present
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- Designed and created a RESTful web app based on MEAN stack, tested it with A/B test and optimized it.
- Performed replication with backend server with a load balancer based on Nginx and a Redis-based cache, wrapped them together with Docker.
- Improved query performance of the web application with Apache Cassandra system based on HDFS.

<b>Travel Route Social Website</b>	Mar 2016 - Apr 2016
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- Designed, created and deployed a travel sharing web app based on Django MVC and SQLite database.
- Created the layout and elements of all the polished web pages using Bootstrap and jQuery framework.

<b>Twitter User Data Analysis</b>	Mar 2016 - Apr 2016
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- Designed and created a cloud-based web application providing query services on a 1-TB-sized Twitter dataset.
- Designed and optimized MySQL and HBase database schemas for the back-end part of this web service.
- ETL the dataset using Amazon EMR based on Hadoop Streaming into the databases.

<b>Contact Management Application</b>	Mar 2016
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- Created a contact management app with local storage to JSON file based on AngularJS.
- Implemented Google Maps API with AngularJS to show the location of that contact.

<b>Cloud Storage System</b>	Mar 2016
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- Implemented the back-end of a cloud storage system providing storage and query of key-value pairs located on multiple areas.
- Applied replication and sharding strategies with MySQL and HBase databases for the cloud storage system.