# SHENG HUANG

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D303, 401 Shady Ave, Pittsburgh, PA 15206

## EDUCATION

**Carnegie Mellon University, Pittsburgh, PA**                                  Aug. 2018 - May 2020(expected)
Master of Science in Information Technology – Mobility

**Shanghai Jiao Tong University, Shanghai, China**                                      Sep. 2014 - June 2018
Bachelor of Science in Computer Science                                                          GPA: 3.53/4.0

## TECHNICAL SKILLS

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|---|---|
| **Programming Languages** | C/C++, Python, Java, HTML, CSS, Matlab, SQL |
| **Framework** | Tensorflow |

## EXPERIENCE

**Shanghai Jiao Tong University, Networking Research Lab**                               Shanghai, China
*In-Memory Storage System for Big Data of Trajectories*                            *Sep. 2016 - May 201*

· Build simple frame and hierarchical frame based storage system, reducing the searching time by 40%.
· Two kinds of queries: Window Range and KNN.

**Shanghai Jiao Tong University, Center for Cognitive Machines and Computational Health** Shanghai, China
*Self-Organizing Supervised Neural Network*                                          *Dec. 2017 - June 2018*

· Bi-directional neural network.
· Achieved high accuracy (more than 97%) in half of the training step.
· Neural network can do both classification and reconstruction of the input.

## PROJECTS

**Text Detection System**                                                              Sep. 2016 - Jan. 2017

· The system can detect the text in the natural images with Edge-enhanced MSER with accuracy of 90%.
· The system can extract the text from the images with the open-sourced tesseract.
· The text can be extracted into targeted language using Baidu Translation API.

**Computer System Project**                                                              May 2018 - Aug. 2018

· Implement a cache simulation.
· Implement a small shell with signal handlers.
· Implement a dynamic storage allocator

**Storage System Project: Flash Translation Layer**                           Sept. 2018 - Dec. 2018(expected)

· Implement an address translation layer that maps LBA to the physical page.
· Implement the garbage collection that erases invalid block.
· Implement a wearing-off component that ensures all SSD blocks are worn off at a uniform rate.

## LEADERSHIP

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|---|---|---|
| **Director Assistant** | SJTU Youth Volunteer Service Corporation | Sep. 2015 - June 2016 |
| **Vice Director** | Student Union of SJTU SEIEE | Sep. 2015 - June 2016 |