

# Ziao Wang



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<https://github.com/wzao1515>

<https://ziaowang.me/>

## Education

M.S. in Computer Science  
Columbia University, NY  
2018-2019 | GPA: 3.91/4.0

B.E. in Internet of Things  
Beijing Institute of Technology, China  
2014-2018 | GPA: 3.6/4.0

## Skills

Languages: C/C++, Java, SQL, Python  
WebDev : HTML, CSS, JS, JQuery, php

## Extra-Curricular

Research Assistant @ Programming  
Systems Laboratory in Columbia  
University

Group Member @ Wu Lab in Columbia  
University

Teaching Assistant for the course of  
Introduction to Databases in  
Columbia University

## Work Experience and Internships

- 2017-2018 Deep Learning Researcher Intern China Mobile, Beijing  
The goal is to implement deep learning algorithms on GPU based embedded system.
- Implemented face recognition algorithms based on Seetaface algorithm that could run on CPU. Written by C++ for 200 lines.
  - Improved the algorithm by using GPU for better performance. The average time consuming of extracting features reduces from 150ms to 50ms. Written by C++ and assembly for 200 lines.
  - Improved the algorithm of Seetaface to run with NEON instructions, so that the total time of three algorithm ran 23% faster on NVIDIA TX-1. Written by assembly for 200 lines.
  - Encapsulated algorithms and created API. Written by C++ for 100 lines.

## Research and Projects

- Jan'19-Now Deep Neural Network Inspection Columbia University  
The goal is to build a distributed system that helps user manage and inspect deep learning models.
- Implemented extraction method for Saliency Map's behavior. Written by Python for 100 lines.
  - Gave definition for system interfaces, including table schema, operators.
  - Implemented uploading models interface.
- Aug'18-Now Patch Validation System Columbia University  
The goal is to build a software tool that helps developers to exam whether their new released patch could be trusted for fixing the reported bug.
- Created scripts which could help users install the mutable replay software and its third-party dependencies. Written by shell for 100 lines.
  - Created breakpoint-related methods which are needed for linking the new patch code with the old version code. Written by C++ for 150 lines.
  - Encapsulate helper functions. Written by C++ for 100 lines.
  - Generated test cases for evaluation. Written by shell script for 500 lines.
- Aug-Dec'18 Full-stack Website  
Description: <https://github.com/wzao1515/snackchat>  
Frontend: Written by JavaScript.  
Backend: Written by Python Flask and interacting with PostgreSQL.

## Achievements

- Apr'18 First-class Scholarship Beijing Institute of Technology
- Apr'17 First-class Scholarship Beijing Institute of Technology
- Dec'15 MCM/ICM Contest  
Meritorious Winner in ICM A problem.