Ziao Wang

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Education

M.S. in Computer Science
Columbia University, NY
2018-2019 | GPA: 3.96/4.0

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 Natural Language Processing 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

Implemented 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

Aug'18-Now **Patch Validation System** — Columbia University

Built a software system 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.

Jan'19-Now **Deep Neural Network Inspection System** — Columbia University

Built 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 logical plan generation. Written by Python for 600 lines.

Feb'19-Now **CVE Binary Tool** — Intel with Google Summer of Coding

The goal is to build a system that scan and extract CVEs from binary file.

- Implemented bash command "file" and "string" by Python. Written by Python for 200 lines.

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.