

# Siang Gao

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## Education

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### Carnegie Mellon University

*Master of Computational Data Science*, School of Computer Science

*Pittsburgh, PA*

**Dec 2019**

- GPA: 3.94/4.00
- Selected Coursework: Cloud Computing, Machine Learning, Storage Systems, Data Science, Search Engines, Distributed Systems

### Peking University

*Bachelor of Science in Computer Science and Technology*, School of EECS

*Beijing, China*

**Jul 2018**

## Experience

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### LinkedIn

*Software Engineering Intern*

*San Francisco, CA*

**Jun 2019 – Aug 2019**

### Microsoft

*Software Engineering Intern*

*Beijing, China*

**May 2018 – Jul 2018**

- Developed the front-end for a K-12 education website with React component, and a single-page MOOC application for Traditional Chinese Medicine with Vue.js
- Implemented back-end APIs for file transmission with Swagger tools and Golang

### Microsoft

*Software Engineering Intern*

*Beijing, China*

**Jul 2017 – Oct 2017**

- Built a website using Django, to generate high-quality Q&A pairs for question answering by utilizing machine learning and XPath
- Designed ASP.NET website APIs using C# to submit jobs on AEther and Cosmos platforms

### SenseTime

*iOS Developer Intern*

*Beijing, China*

**Jun 2016 – Sep 2016**

- Developed an iOS application for data collection using AVFoundation to improve gesture recognition
- Resolved software bugs and improved company's iOS applications using Swift and Objective-C

## Selected Projects

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### Chinese Intelligent Q&A System | Peking University

**Mar 2017 – Jun 2017**

- Performed tokenization, stop words removal and synonym replacement on input queries with Python
- Trained on 16,000 query-answer pairs to perform passage ranking and answer extraction

### Cwft: A Swift to C++ Translator | Peking University

**Sep 2016 – Jan 2017**

- Devised a Swift to C++ translator with type inference and error checking using Antlr and Java

### Message Dissemination Analysis | Peking University

**Sep 2016 – Dec 2016**

- Built a website to collect and store data of 3000+ visitors with JavaScript, HTML and PHP
- Analyzed their locations, average time on page and routes of message dissemination with Python

## Publications

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- Zhouyi Sun, Siang Gao, Bingqing Liu, Yufei Wang, Tong Yang, Bin Cui. Magic Cube Bloom Filter: Answering Membership Queries for Multiple Sets. *Bigcomp 2019*.
- Tong Yang, Siang Gao, *et al.* Diamond Sketch: Accurate Per-flow Measurement for Real IP Streams. *IEEE INFOCOM 2018*. Poster.

## Skills

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### Programming

Proficient in C/C++, Python; Familiar with JavaScript, PHP, Swift, Java, Go

### Libraries/Platforms

Git, SVN, Linux, React, Vue.js, Django, Node.js, jQuery, AEther

### Markup/Templating

HTML, CSS, Markdown, L<sup>A</sup>T<sub>E</sub>X