

Siang Gao

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Education

Carnegie Mellon University

Pittsburgh, PA

Master of Computational Data Science, School of Computer Science

Dec 2019

- Selected Coursework: Cloud Computing, Machine Learning, Data Science, Storage Systems

Peking University

Beijing, China

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

Jul 2018

- GPA: 3.64/4.00 Honors & Awards: Carku Scholarship (2017), Merit Student (2016)
- Selected Coursework: Programming in C&C++, Parallel and Distributed Computing, Data Structure and Algorithm, Java Programming, Compiler Design, Web Data Mining, Operating Systems

Experience

Microsoft

Beijing, China

Software Engineering Intern

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

Beijing, China

Software Engineering Intern

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

Beijing, China

iOS Developer Intern

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

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

- Tong Yang, Siang Gao, *et al.* Diamond Sketch: Accurate Per-flow Measurement for Real IP Streams. *IEEE INFOCOM 2018*. Poster.
- Peng Liu, Hao Wang, Siang Gao, *et al.* ID Bloom Filter: Achieving Faster Multi-set Membership Query in Network Applications. *IEEE ICC 2018*.
- Dongsheng Yang, Deyu Tian, Junzhi Gong, Siang Gao, *et al.* Difference Bloom Filter: a Probabilistic Structure for Multi-set Membership Query. *IEEE ICC 2017*.

Skills

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^AT_EX