# Hanyu Yang

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## **OBJECTIVE**

I'm a graduate student looking for internship in Software Engineer or Data Engineer. I aspire to apply my knowledge into Internet of Things and Artificial Intelligence areas to pursue a smarter life.

#### **EDUCATION**

## Carnegie Mellon University, Pittsburgh, PA & Silicon Valley, CA

Master of Science in Information Technology, Mobility, Expected May 2018, GPA 3.54

Course: Introduction to Computer Systems (15513), Web Application Development (15637), Information Security (14741), Telecommunications & Computer Networks (14740), Distributed Systems (15640), Computer Vision Apps (16423)

## Singapore Management University, Singapore

Exchange, Information Systems, December 2015, Major GPA 3.9

# Zhejiang University, Hangzhou, China

Bachelor of Engineering, Computer Science, July 2016, Major GPA 3.93

#### **EXPERIENCE**

# Linux Programmer, Assist in programming tasks for Mellon College of Science (Python)

Carnegie Mellon University, Pittsburgh, PA, October - present 2016

• Used procmail recipes to filter emails of server logs and wrote real-time scripts to analyze anomaly

# Research Student, Experimental Evaluation for Pivot-based Metric Index (C++)

Singapore Management University, Singapore & Zhejiang University, China, September 2015 - May 2016

- Implemented three index structures (LAESA, CPT, EP) for two metric similarity queries (Range, kNN)
- Improved query performance by replacing Pivots Selecting Algorithms for three index structures

## Back-end Engineer (Intern), Cross-Border e-Commerce Web Application (Java)

Jiayun Data Science and Technology, Hangzhou, China, May - July 2015

- Developed back-end business logic and data access based on Spring and Hibernate framework
- Generated automated scripts for back-end request and response testing with Jmeter

#### **PROJECT**

## Nano Blogging Site (Django)

Carnegie Mellon University, Fall 2016

 Built a Twitter like nanoblogging site Grumblr with Django MVC design, and features like ModelForm, Signals and AJAX updates.

#### Map Calendar Web Application (JavaScript)

Carnegie Mellon University, Fall 2016

• Undertook the map interactions and logic design for page synchronization of a Location-based calendar web app using Mapbox API.

#### **Smartphone Software Development (Android)**

Zhejiang University, Spring 2015

 Designed the Activities logic of a GPS-based real-time bus reminder App and undertook the real-time locating and destination detection part.

## **Dynamic Memory Allocator (C)**

Carnegie Mellon University, Fall 2016

• Overwrote the system level Dynamic Storage Allocator, to allocate (malloc), reclaim (free), split, and coalesce memory space from heap.

#### **Concurrent HTTP Web Proxy (C)**

Carnegie Mellon University, Fall 2016

 Built a thread-based concurrent HTTP web proxy with a thread-safe LRU cache using readers-writer lock model.

#### **Information Retrieval and Web Search (Java)**

Zhejiang University, Fall 2014

• Developed the Crawler, Tokenizer, Stemmer, Indexer and Corrector part of a search engine built for Fox Sports NBA news and players.

#### **SKILL**

- Programming/Scripting Languages: Python, C/C++, Java, JavaScript, HTML, CSS, SQL
- Frameworks and Tools: Django, jQuery, pySpark, Git, Spring, Hibernate

#### **COURSES**

• Machine Learning, Data Science and Engineering with Apache Spark, Algorithms