

# Hanyu Yang

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## OBJECTIVE

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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

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

*Master of Science in Information Technology, Mobility, Expected May 2018*

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

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### 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

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### 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

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

## COURSES

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

