Hanyu Yang

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EXPERIENCE

Software Development Engineer (Java/Python)
  Amazon, Boston, MA, March 2018 - present
  - Built a scalable ETL pipeline with AWS services at Alexa Information Domain

Teaching Assistant for course Cloud Computing (Django)
  Carnegie Mellon University - Silicon Valley, Mountain View, CA, August - December 2017
  - Developed a peer grading system to improve course scalability by reducing TA's grading time

Software Development Engineer Intern (Java)
  Amazon Web Services, Seattle, WA, May - August 2017
  - Implemented an exponential way to improve deployment speed by 50% with DynamoDB and SWF
  - Integrated the exponential option and a progress monitor into the Ruby-on-Rails website
  - Built a song quiz Alexa skill with flask-ask framwork and SSML output in Global Intern Hackathon

Research Assistant, Assist in programming tasks for Mellon College of Science (Python)
  Carnegie Mellon University, Pittsburgh, PA, October 2016 - June 2017
  - Used procmail recipes to filter emails of server logs and wrote real-time scripts to analyze anomaly
  - Contributed to paper Preemptive Infrastructure Maintenance Through Adaptive Pattern Search

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 qeuries (Range, kNN)
  - Improved query performance by replacing Pivots Selecting Algorithms for three index structures

EDUCATION

Carnegie Mellon University, Pittsburgh, PA & Silicon Valley, CA
  Master of Science in Information Technology, Mobility, August 2016 - December 2017
    Course: Introduction to Computer Systems, Web Application Development, Telecommunications & Computer Networks, Cloud Computing, Distributed Systems, Computer Vision Apps, Machine Learning, Mobile Hardware for Software Engineer

Singapore Management University, Singapore
  Exchange, Information Systems, August - December 2015

Zhejiang University, Hangzhou, China
  Bachelor of Engineering, Computer Science, September 2012 - July 2016

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.

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.

Computer Vision based Sudoku (C++/OpenCV)
  Carnegie Mellon University, Spring 2017
  - Built an iOS application with OpenCV libraries to let users interact with a printed Sudoku puzzle on their devices.

Twitter Analytics Web Service (Java)
  Carnegie Mellon University, Spring 2017
  - Designed a web service from ETL to backend schema optimization on AWS to support queries with throughput and budget requirement.

File Caching Proxy (Java)
  Carnegie Mellon University, Spring 2017
  - Implemented a Proxy with LRU Cache Replacement Policy and Check on Use Cache Consistency approach

SKILL

- Programming/Scripting Languages: Java, Python, C/C++, JavaScript, HTML, CSS, SQL
- Frameworks and Tools: AWS, Git, Django, OpenCV, Ruby-on-Rails, JQuery, Docker, Spark, Kafka