

Chester Hongyu Yang

370 W, 52nd St, Apt. 2A
NY, 10019
(917) 678-7939
chester.h.yang@gmail.com

SUMMARY

Professional Computer Engineer Master Student at Columbia University seeking a full-time role as a Software Engineer. Strengths include strong programming capability, systematic software skills in Front-Back -End, Databases and Cloud Services.

EDUCATION

Columbia University, New York, USA, Sep. 2016 - Dec. 2017 (Expected)	M.S. in Computer Engineering
Zhejiang University, Hangzhou, China, Sep. 2013 - Mar. 2016	M.S. in Electrical Engineering
Huazhong University of Sci. & Tech., Wuhan, China, Sep. 2009 - Jun. 2013	B.S. in Electrical Engineering

WORK EXPERIENCE

Software Engineer Internship, Mangata Inc. Jun. 2017 – Aug. 2017

Worked on a team to build a platform to manage products, orders and gift sending policies. Provided real-time gift sending experience for individuals and companies in Manhattan.

Frontend Framework:

- Structured *Components & Services & Routing Module* for dashboard platform using **AngularJS 2**, hosting on **S3**.
- Implemented web design with *HTML & CSS & Bootstrap* for different components with proper data binding.

Backend AWS Services:

- Created **DynamoDB** databases for products and orders and **Elasticsearch** endpoint for search service.
- Implemented **Lambda** functions: *Create/Read/Update/Delete* operations on databases; *Post/Delete*(DBs triggered) & *Filter* operations on Elasticsearch.
- Designed *RESTful* APIs under designed parameter & data requirements on **API Gateway**, connected APIs with corresponding Lambda functions, and integrated API Gateway SDK to AngularJS.

PROJECTS

Restaurant Recommendation System Mar. 2017 – May 2017

Enables users to search restaurants nearby, and get recommendations according to their favorite records.

- Developed a web user interface (*HTML5/CSS/JS*) with page views of Nearby, Favorite, & Recommendation.
- Created Java servlet *RESTful* APIs under **Apache Tomcat** software to listen & respond to HTTP requests.
- Built database services (*Relational/Nosql MySQL/MongoDB*) to store restaurant/user/favorite records.
- Implemented restaurant geo-search function through **Yelp API**.
- Deployed the service on AWS EC2, enabling a 200 request/sec performance tested in **Apache JMeter**.
- Tested test cases in JUnit and completed **Elastic Search/Logstash/Kibana** log analysis.

VideoStyle Jan. 2017 – May 2017

Designed for users to stylize their videos into their favored types, and offers users an interface to upload their videos and get stylized videos.

- Designed the index web page(*HTML5/CSS/JavaScript*) for a user to upload video, enter email address, & choose the preferred style and show page for user to view/download/share the processed video.
- Fulfilled video type, email input, & empty checkings to ensure the correctness of data submitted to backend.
- Created a backend server with **Python Flask** that implemented routing for indexing & showing page, and receiving the video & info data sent from the user.
- Used AWS APIs to store the uploaded videos to **S3** and send processing tasks to **SQS**.
- Implemented the API for receiving **SNS** notification when video has been processed, creating new web address for user to fetch processed video and sending the address to the registered email.

TECHNICAL SKILLS

Courses/Skills: Algorithms, Data Structure, OOD, Databases, Networks, OS, Web Dev., Cloud Computing & Big Data

Programming Languages: Java, Python, C, HTML5/JavaScript/CSS3/Ajax, SQL, Shell, JSON

Tools: AWS (EC2, API Gateway, DynamoDB, Lambda, ElasticSearch, SNS, SQS, Elastic Beanstalk, S3 ...), MySQL, AngularJS 2, Swagger, Apache Tomcat, MAMP, Postman, Flask