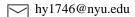
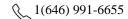
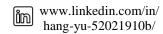
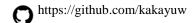
HANG YU









EDUCATION

New York University

New York City, USA Sep. 2019 – May 2021 (expected) Master's Degree in Computer Science

GPA: 3.93/4.0

Shanghai Jiao Tong University

B.E. Degree in Software Engineering

GPA: 3.52/4.3

Shanghai, China

Sep. 2015 – Jun. 2019

SKILLS

Programming Language: Python, Java, C/C++, JavaScript, PHP

Database: MySQL, MongoDB, Redis

Framework: Laravel, Spring, Struts, Hibernate | AngularJS, Vue.is

Data Analysis: Spark, R

PROFESSIONAL EXPERIENCE

Morgan Stanley Shanghai, China

Software Engineering Summer Intern

Jul. 2018 – Sep. 2018 Developed a web application for Application Security Development team; enabled user of different roles to acquire data from auto-generated massive raw records and form customized reports.

- Created administrator-defined-user-used workflow for conducting costumed reports.
- Designed and implemented backend data model based on source data stored within IBM DB2.
- Visualized SQL script assemblies and filter setting for report auto-generation.

SELECTED PROJECTS

Neighborhood - Social Networking Website Course Project

Nov. 2019 – Dec. 2019

Designed and implemented a web application allowing users' communication in neighborhood. User could specify and manage locations, send and receive messages to others and search in map view.

- Design and implement robust database schemas supporting complex business logic.
- Enabled authentication, database manipulation and security control in backend system based on Laravel.
- Utilized Vue.js, Element UI and Google Map API to support the functionality of the front-end system.

Research and Implementation of Code Search Using Mixed Code Representation Dec. 2018 – Jun. 2019 Research & Graduation project in SJTU

Introduced deep learning, information retrieval and machine learning to perform effective code-search task.

- Represent and validate Lucene-based conventional Information Retrieval model including CodeHow, WordNet, QECK and Deep Learning-based DeepCS model.
- Design duet algorithm incorporating Information Retrieval and Deep Learning approaches to extract more feature of code snippet, and gain better MRR and NDCG evaluation result.

COOL Language Compiler Course Project

Mar. 2020 - May 2020

Implemented a simple full-operational compiler for the Cool language using C++, covering components including scanner, parser, semantic analyzer and code generator.

- Designed and implemented AST to fully support static type checking.
- Augmented AST to emit correct runnable MIPS assembly code efficiently.

On-Line Book Store Course Project

Mar. 2018 - Jun. 2018

Developed an online bookstore website using Spring Struts Hibernate framework, allowing browsing through categories, searching for goods, adding to cart, placing orders and administration

- Monitored and prevented XSS, SQL injections; encrypted user information transaction with RSA algorithm; applied JAAS secured log-in mechanism to promote system security levels.
- Enabled read/write splitting, master-slave backup on MySQL database, applied cache layer utilizing Memcached between database and apache server.
- Utilized Logstash to export 50,000 records to Elasticsearch engines and visualized search via Kibana.

PUBLICATIONS

Shuhan Yan; Hang Yu; Yuting Chen; Beijun Shen; Lingxiao Jiang. Are the Code Snippets What We Are Searching for? A Benchmark and an Empirical Study on Code Search with Natural-Language Queries, 2020 IEEE 27th International Conference on Software Analysis, Evolution and Reengineering (SANER)