

# Yufeng(Frank) Yuan

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🔗 <https://www.github.com/yufengyuanx>

## SUMMARY

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Seeking for a full-time **software developer engineer** position starting immediately.

7 years Computer-Science related study with strong programming, analytic and mathematical skills. Solid computer science knowledge with Algorithm, Data Structure, Network, Machine Learning. Hands-on experiences with **Java**, **Python**, MySQL, HTML, CSS and JavaScript.

## EDUCATION

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### Master of Computer Science

3.76/4.0

UNIVERSITY OF MASSACHUSETTS LOWELL, COLLEGE OF SCIENCE

Sep. 2014 - Jun. 2017

**Courses:** Analysis of Algorithm, Machine Learning, Database, Data Mining, Advanced Database System, Ubiquitous Computing, Computer & Network Security, Big Data System Design.

### Bachelor of Network Engineering

3.0/4.0

DONGHUA UNIVERSITY, COLLEGE OF COMPUTER SCIENCE AND TECHNOLOGY

Sep. 2010 - Jun. 2014

**Courses:** C, Data Structure(C++), Java, Operating System, Assembly Programming, Compiler Principles.

## SKILLS

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- **PROGRAMMING LANGUAGE:** Objected-Oriented Design with JAVA, Web Design with HTML, CSS, JavaScript, Statistic Analysis with Python, R. Documentation with  $\text{\LaTeX}$ .
- **COMPUTER SCIENCE:** Data Structure, Algorithm, Objected-Oriented System Design, Distributed System Design and Development.
- **DATA SCIENCE:** Mathematics, Statistics and Probability; Supervised and Unsupervised Machine Learning models, Natural Language Processing.

## RELEVANT PROJECTS

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### MACHINE LEARNING - VISUAL QUESTION ANSWERING (Python, LUA, Neural Network, CNN, LSTM)

- Designed model to answer open-end question for a given abstract. This is a competition from Kaggle.
- Used 5-layer CNN for image recognize and 2-layer LSTM Networks for Natural Language Processing.
- Applied Parameters Optimization and Fine-tuning and **improved the accuracy from 60% to 72%**.

### ANDROID APPLICATION - DRIVING BEHAVIOR ANALYSIS (Android, PHP, OBD II, Google Map)

- Developed an Android Application for detect driver's driving data, and analyze the driving behaviors.
- Collected data from OBD II API(via Bluetooth), Google Map API and Android Device.
- Built server side with MySQL to store the data, PHP for analyze data.
- Designed algorithms and analyzed data to explore driver's driving behavior.
- Generated the report from the server to give users feedback and review.

### NETWORK SECURITY - AES ENCRYPTION (C, Socket, AES-128, BBS, Diffie-Hellman Key Exchange)

- Designed a secure file transfer system with Socket Programming.
- Implemented AES-128 encryption and decryption algorithm by C language.
- Generated random key as a public key for client and server by BBS algorithm.
- Implemented Diffie-Hellman key exchange algorithm to exchange keys between client and server.

## WORKING EXPERIENCE

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### SOFTWARE ENGINEER INTERNSHIP (Beijing Haosimai Info. Tec. Co. Ltd.)

May. 2013 - Aug. 2013

- Designed and developed responsive webpages with Bootstrap framework and JQuery.
- Researched high volume keywords and implemented SEO for improving the quality of the website.
- Collected data from back-end database and analyzed customer information.