**Yongqiang Fan**

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**Software Engineer enthusiastic about backend development and security engineering.**

**Education Background**

**Johns Hopkins University Aug. 2017- Dec 2018(expected)**

Whiting School of Engineering (WSE)

Master of Science in Information Security

**Overall GPA: 3.3/4.0**

**Drexel University Sep. 2014- June 2017**

College of Computing and Informatics (CCI)

Bachelor of Science in Computer Science **Minor**: Mathematics

**Overall GPA: 3.1/4.0**

**Skills and Languages**

* Programming Languages: Java, C/C++, Python, HTML/CSS, JavaScript, SQL, Ruby, Swift, Matlab
* Frameworks & Tools: Spring, Maven, TensorFlow, Scikit, OpenCV, Flask, Hadoop, Git, JSP, Ossec

**Engineering Experience**

**Software Engineer June. 2018- Aug.2018**

**Huawei Technologies Co., Ltd., China**

* Deployed Spring Security framework for the Huawei GNEEC platform, designed and implemented security features that provided token authorization and validation.
* Designed custom filter that isolated hostile traffic including SQL injection, LDAP injection, XSS, etc.
* Facilitated the JUNIT testing for the J2EE application on the business platform, improved the line coverage up to 30% more covered over 5000 LOC.

**Software Engineer Sep. 2016- June.2017**

**SilkTours, Inc, Philadelphia, PA**

* Deployed the server on AWS EC2 instance with Python Flask framework. Designed server architecture and data transmission methods that provides RESTful API for all three platforms.
* Managed and maintained the user authentication and database transmission between EC2 servers, third party services and other AWS services.
* Managed the backend service by designing, setup and maintaining the database via MySQL.

**Engineering Projects**

**Object Recognition Software Winter 2018 till now**

* Design and implement a Python software with TensorFlow framework for object recognition that identify and classify different objects with accuracy over 95%.

**Intrusion Detection System Winter 2018**

* Designed an intrusion detection system that classified over 500,000 lines of KDD99 dataset into different categories with precision over 97%.
* Implemented the classifier of the IDS using CART algorithm with Python Scikit.

**Spam Call Detection System-Map Reduce Fall 2017**

* Designed and implemented the Map Reduce function using Python Hadoop that mapped data to corresponding reducer to maximize the computing power.
* Processed files with over 100,000 lines of spam call data in total and generated results for experiment.

**Social Media Application-Senior Design Spring 2017**

* Designed and implemented UI and data transmission module for the IOS application with Swift. Designed and implemented UI and data transmission module for the Android application with java.