QIKE YAN

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EDUCATION

M.S. in Computer Science *GPA:3.9/4.0* ***Sept 2017 - May 2019***
Fordham University, New York, USA
B.E. in E-Commerce with Laws Dean's List, 2013-2017 ***Sept 2013 - May 2017***
Beijing University of Post and Telecommunication, China

TECHNICAL SKILLS

Programming Languages : **Java**, Python, Node.js, SQL, HTML, CSS
Applications : Google Cloud Platform, Google Analytics, MongoDB, MySql
Libraries and APIS : Express, Sequelize, Hadoop, MVC

WORK EXPERIENCE

Team Lead and Full-Stack Engineer **Fordham University, NY** ***Dec 2018 - May 2019***

- Pitched, and led a team of six to develop a web platform for students to connect and share school resources.
- Built **RESTful** APIs with Node.js and Express framework for posts and comments retrieval, deletion, creation and modification.
- Configured and created login and registration strategies using Passport.js with Express-session for user authentication.
- Developed a chat functionality that allows students to exchange messages using socket.io with Node.js for the server side.

Software Engineer **Etomon, NY** ***Oct 2018 - Dec 2018***

- Worked on front end to design and create responsive and cross-platform compatible web pages using SCSS, jQuery ,HTML.
- Reduced average page load time by 200% by minifying, combining JS and CSS files, and implementing lazy images loading.
- Assessed customer needs and coded in Node.js to develop backend functionality for user reviews, login and user authentication.

Graduate Research Assistant **Fordham University, NY** ***Apr 2018 - Nov 2018***

- Developed a machine learning program in Python to help drones detect dangerous weather conditions and how to respond.
- Streamed live data from an in-motion drone, feed time-series data into a random forest model, resulted in 92% accuracy.
- Used D3 data visualization techniques to identify the reason for predictive models' inability to distinguish wind directions.

Software Engineer **State Grid of China ,Beijing, China** ***Sept 2016 - Feb 2017***

- Worked in a team of ten to design and implement an Android application to visualize energy consumption of EV charging stations.
- Developed backend functionality in **Java**, including collecting real-time data, transforming, storing and cleaning daily electricity consumption data.
- Integrated the unit test cases with TSS (Test suite) to automate the test process. Generated daily reports and communicated with team members to achieve better performance.

ACADEMIC PROJECT

Android Malware Detection ***Oct 2018 - Dec 2018***

- Devised an algorithm in Python for detecting Android malware using random forest, linear SVC, logistic regression and XG boosting with 99.8% accuracy. The model can be used on Android cell phones as malware protection.
- Implemented feature selection by randomly selecting features individually, in pairs or in triples using greedy methods to reduce the feature space from 58 to 30 and reduced the training time by 30%.
- Identified the top 8 predictors as risk factors associated with malware infection by aggregating feature importance scores of logistic regression, linear SVC, random forest and XGBoosting.

Train Schedule Management System ***Apr 2015 - June 2015***

- Developed a passenger train schedule visualization and resource allocation tool for a Beijing special journey train system.
- Applied agile software development model and MVC, Decorator and Visitor design patterns.
- Created a UML that explains the relationship between classes and inheritance tree to team.
- Validated the system with an extensive testing framework including white/black box testing, regression testing and unit testing.