# Pinho (Jimmy) Wang

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## Summary

Motivated developer and learner with strong programming skills in Java, Javascript and Scala; experience creating custom websites through React.js, Node.js and Spring Boot; seeks a full time position in Software Engineer, Full Stack Engineer

## Education

**Northeastern University**                                                                                                            Boston, MA

Master of Science in Computer System Engineering                                                                          May 2020

- Relevant Courses: Program Structure & Algorithms, Enterprise Software Design, Data Management and Database Design, Big-Data System Engineering using Scala, DevOps

**National Taiwan University**                                                                                                      Taipei, Taiwan

Master of Science in Electrical Engineering                                                                                        Feb 2017

- Published conference paper at IEEE International Conference on Computational Electromagnetics (ICCEM)
- Relevant Courses: Numerical Analysis and Programming, Digital Speech Processing, Operating Systems

**Yuan Ze University**                                                                                                            Taoyuan, Taiwan

Bachelor of Science in Electrical Engineering                                                                                     June 2014

- Relevant Courses: Intro. to Computer Science, Programming Language

## Professional Experience

**IBM**                                                                                                                              Taipei, Taiwan

**Software Engineer Intern** (Javascript, React.js, Node.js)                                                       Jun. 2019 - Aug. 2019

- Built and migrated the X-Force Exchange (XFE) application, which enabling research on security threats, aggregation of intelligence, and collaboration with experts
- Invoked XFE Restful API and designed web components using React.js, Node.js, HTML/CSS, which can fetch and provide the latest intelligences in different categories such as vulnerabilities, malicious threat and early warning feed
- Integrated XFE API into Splunk dashboard to support real-time monitoring and enhance product visibility
- Participated full agile software development life cycle in scrum environment; worked seamlessly with manager, design team and development team; collaborate closely with developers and design team members

## Projects

**Movie Tickets Reservation System** *(https://github.com/PinHoWang/MovieBookingSystem)*            Feb. 2020 - Apr. 2020

- Built a system to manage the movie tickets reservation which can handle large users network traffics
- Designed a React based web components for the landing page, users page, movie page and credit card payment page
- Arranged the application as a microservices architecture and used CORS protocol to interact with Spring Boot backend; utilized AWS Load Balancer to enhance capability and reliability of the application
- Created the AWS cluster using Terraform and deployed the application using Ansible; set up a CICD pipeline using Jenkins and monitored the application's time series network traffics with Prometheus for improving MTTR

**Boston Criminal Events Dashboard**                                                                                 Oct. 2019 - Dec 2019

- Built a system which can research and integrate crime events including clustering locations, predicting and searching
- Digested and analyzed the incoming data using Scala and Spark to provide comprehensive quantitative information
- Implemented K-means algorithm and grouped 2,60,760 data points into a heat map on Play framework; utilized Elbow Method for optimal K-means algorithm and reached less than e-4 of sum of squared error

**Comments Map** (React.js, Node.js, MongoDB)                                                                   Jun. 2019 - July. 2019

- Designed a map system allowing worldwide users to write comments with their location on the map
- Integrated leaflet API in React.js for creating the basic map components and designed a secure CRUD APIs for reading/writing comments using Node.js; utilized middleware to handle bad request from client side
- Designed the NoSQL database schema and used Mongoose ODM to interact with MongoDB
- Deployed the application on AWS EC2 and successfully tested 100 comments in nearly real time period

## Skills

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|---|---|
| Programming Language: | Javascript, Java, Python, Scala, C++, HTML, CSS |
| Tools: | Node.js, React.js, Spring Boot, Flask, MySQL, MongoDB, AWS, Docker, Git |