

Pinho (Jimmy) Wang

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EDUCATION

Northeastern University, Boston, MA

Master of Science in Computer System Engineering Expected May 2020

Relevant Courses: Program Structure & Algorithms, Data Science Engineering Methods, 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

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

WORK EXPERIENCE

IBM

Taipei, Taiwan

Software Engineer Intern (*Python, React, Node.js, RESTful API, Docker, k8s*) Jun. 2019 - Aug. 2019

- Participated the development and migration of X-Force Exchange (XFE) App to the IBM QRadar
- Invoked the **threat intelligence** data via XFE RESTful API and designed the **React** based web pages as the client side and **Node.js** as the server side; containerized the stacks as microservices
- Participated full **Agile** software development life cycle in **scrum** environment; worked seamlessly with manager, design team and development team; familiar with short iterations, and collaborate closely with developers and design team members

ACADEMIC PROJECTS

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

- Designed a system to manage the movie tickets reservation process including booking and payment
- Implemented **React** based frontend pages and interacted with **Spring Boot** and **MySQL** backend side stacks; utilized CORS and JWT to handle http requests and responses and security for multiple users scenario; managed the stacks with **K8s** as scalable microservices and used LoadBalancer to handle large usage situation; deployed on **AWS** clusters by **Terraform** as IoC for provision and management
- Set up a CICD pipeline by **Jenkins** for faster MTTR and more test reliability; analyzed and monitored the application's time series network traffics with **Grafana**

Analyze Crimes in Boston (*Scala, Spark, AWS*) Oct. 2019 - Dec 2019

- Investigated the criminal events in Boston areas including clustering the criminal locations, predicting future criminal events and analyzing the events' description for data searching system
- Cleaned and analyzed dataset with **Scala** and **Spark**; Implemented K-mean algorithm to cluster criminal locations as a heat map and implement data search system on **AWS** EC2
- Reached less than **e-4** of SSE in K-mean algorithm; found 104 violent words and **84%** accuracy

Coffee Shop App (*HTML, CSS, JSP, MySQL*) Feb. 2019 - Mar. 2019

- Designed a coffee shop website for customers to purchase beverages and leave comments
- Designed the front end web page via **HTML** and **CSS** and developed the server side via **JSP**, **servlet**; designed the relational database by using **MySQL** and **Hibernate**
- Allowed multiple users logging in the pages to modify the orders or comments in the same time

TECHNICAL SKILLS

Programming Language:	Python, Scala, Java, Javascript, C++/C, SQL, Matlab
Tool and Platforms:	Spark, AWS, Azure, Docker, Kubernetes, Terraform, Git, Github
Web Technologies:	React, Node.js, .NET, Spring Boot, Flask, HTML/CSS
Database:	MongoDB, MySQL, SQL Server