Yue Sun
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EDUCATION

- University of Pittsburgh — Pittsburgh, PA
  Master of Information Science; GPA : 3.962/4 — Aug. 2018 – Apr. 2020
- Nanjing University of Posts and Telecommunication — Nanjing, China
  Bachelor of Electrical Engineering — Aug. 2014 – July. 2018

SKILLS

- Programming Language: **Java(3 years)** , **JavaScript(1 year), Python(1 year)**, PHP, MATLAB, R
- Software Development: Postman, Docker, **Git**, Heroku, NoSQL(**MongoDB**, Neo4j), SQL(**MySQL**, **PostgreSQL**)
- Libraries and Frameworks: **Spring MVC(1 years)**, **Angular**, React, Bootstrap, Semantic UI, Node.js(Express.js)

WORKING EXPERIENCE

Software Design Engineer (Intern) | Bekaert, China — July. 2019 - Aug. 2019

Designed a system to manage inventory. Help the team improve 30 percent of efficiency.

1. To migrate data from excel, I write a script with **Python** to change data formats.
2. I chose **MySQL** database to import data and set modes to STRICT_TRANS_TABLES mode and Repeatable read. And now multiple roles can operate data with accuracy.
3. To create a portal for different roles, I chose **PHP** and **JavaScript**. So users can update data from portal.

PROJECT EXPERIENCE

ACCI-SAFE | Full-Stack Project (GitHub&Demo) — Feb. 2020 - Apr. 2020

To monitor all accidents in United States, we built the portal which can visualize all numbers of accidents per state, searching all accidents by roads and analyze accidents by different factors.

1. To get access to three databases which are **PostgreSQL, MongoDB and Neo4j**, I chose **Spring MVC** and add dependencies including **data driver, JPA** for each of them.
2. Different roles cannot access to all of the data, so to improve the security of website, I add **Json Web Token(JWT)** into dependencies.
3. To make sure the portal can get access to the data, I created **REST APIs**. For now, the portal can send responses from port 8080.
4. To visualize data, I used **Angular 8, fusion charts and Google Map API**.
5. To get access to data instead of locally, I **migrate database** to **Amazon Web Services(AWS) RDS** and migrate data in Neo4j to **Aura**.
6. To make sure that portal can handle responses not only locally but also anywhere. I **deployed** the backend to **Heroku**.

Ugly-Face | Full-Stack Project (Demo | GitHub) — Mar. 2019 - Apr. 2019

Building an innovative website to take distorted facial expression. Integrating this function will greatly enhance the consumer entertainment experience leading to increased engagement from the followers when uploading on social network websites.

1. To make access to **PostgreSQL** database, I chose **Spring MVC** and add Maven dependencies for **JAP, Hibernate and Postgres.**
2. To make sure that users and admins has sperate roles, and secure the website, **JWT** is used to protect routers and APIs.
3. To store and send data, I designed **REST APIs**. So the portal can handle responses from server.
4. To build a portal for users and admins, I chose **React** library. And also, **Redux** can help me handle actions easier.
5. To make sure the portal have the function of **taking photos and detect facial expression**. I used a machine learning model from the **clmtrackr library**.
6. To get access to the portal remotely, I **deployed** backend to **Heroku** and **host the frontend** in **Glitch**.