ZIJIAN XU

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EDUCATION

- **University of Pittsburgh**   **Pittsburgh, Pennsylvania**
  MS, Information Science   *Aug 2019 to Present*
- **Nanjing University of Posts and Telecommunication**   **Nanjing, China**
  BS, Electrical Engineering   *Aug 2015 to Jul 2019*

TECHNICAL SKILLS

- **Programming Language:** *Java (proficient)*, JavaScript (prior experience)
- **Software Development:** SQL (MySQL, *PostgreSQL*), NoSQL (*DynomaDB*, *MongoDB*, Neo4j), git, *AWS*, Docker
- **Libraries and Frameworks:** *Spring MVC (proficient)*, *Angular (prior experience)*, React, Node.js(Express, Nest), Ionic

WORKING EXPERIENCE

Amazon   **Seattle, Washington**
Software Development Engineer Intern   *Jun 2020 to Present*
   *Implemented an **email automation system**. Reduced hundreds of agents' workload and **increased team efficiency by 20%** by using Java, DynamoDB, S3, SES, Spring framework, React Library.*

- Created a new thread for **scheduled task** with **Spring**. The automation can only run at a specific time **with offsets**. Emails can only be sent to customers worldwide at working time.
- Created new tables with **DynamoDB**. Making sure that customer information was not stored in table, keep the security of the system.
- Made external calls with account id to decrepit customer information.
- Stored emails' html-templates in **S3**. Called Apis to get templates based on different situations. Emails can provide different options and advice for different customers.
- Set **SES** sand box mode and sent emails with SES server. Tracked emails sending status. Customers can receive emails and make further steps based on sending status.
- Worte **unit test** with **Junit** and **Mockito**. Making sure that each method I added will get the result I wanted. The whole system will not be merged into branch before unit testing. The codes in branch is all in a good quality.
- Designed a visualization table for agents with **React**. Stored actions with **Redux**. Agents can easily track the automation process and make actions with those customers' email cannot be sent.

University of Pittsburgh School of Health and Rehabilitation Sciences   **Pittsburgh, Pennsylvania**
Full Stack Developer   *Dec 2019 to Present*
- Develop **mobile apps** and **portals** for clinicians. Helped patients take part in different **medical projects** with easier way. Helped doctors get messages of different cases on time. Using Spring framework, Angular framework, Express.js and Ionic framework.
- Designed **Geo-navigation system mock up** for disabled person for both outdoor and indoor purpose. Helped people in wheelchair get safest and shortest way. Helped people find education sources nearby.
- Develop **directories website** with **WordPress** and Google Map API. Provided family caregivers information about different origination as well as their locations and website. **Saved 30% of time** for caregivers.

FanoLabs   **Shenzheng, China**
Software Testing Engineer   *Feb 2019 to May 2019*
- Wrote **Cypress scripts** for web automation testing. The automation can mock thousands of people click one button at the same time. Making **pressure test** easier and make sure website will not have problems in high peak period before being deployed.
- Called APIs and got http responses. Visualized different status code in the website with **React**. The other developers can easily figure out how many failures will be in one day.

PROJECT EXPERIENCE

Clockwork   **University of Pittsburgh School of Health and Rehabilitation Sciences**
Responsibility: Implement backend   *Feb 2020 to Present*
- Created **RESTFUL API** with **Spring MVC**. Created a new **annotation** for web filter. When calling apis, annotation will help me filter those ids are not a patient id.
- Implemented **Web Socket** in Spring. When patients registering accounts or reporting activities, clinicians can receive notifications on time. Clinicians will not miss any activities.
- Deployed **PostgreSQL** to **AWS RDS** for testing purpose. All teammates with different Dev-computers can test with the same data.

ltgo   **University of Pittsburgh School of Health and Rehabilitation Sciences**
Responsibility: Implement both backend and frontend   *Feb 2020 to Present*
- Created RESTFUL API with **Express.js**. Applied **JWT** for autorization. Four different Roles will be distinguished by token.
- Created a bar chart with **Angular**. Visualized patients' every day steps for clinicians. Helped doctors save 20% of time.

OTHER SKILLS

Languages English (professional proficiency), Mandarin (native)