Yiwei Yao

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Education

University Of Massachusetts Boston Boston, MA
Master of Science in Computer Science GPA 4.0/4.0 Sep 2019 – Dec 2020

University Of Massachusetts Boston Boston, MA
Bachelor of Science in Computer Science, Minor in Mathematics GPA 3.445/4.0 Sep 2015 – Dec 2018

Technical Skills

Languages: Java, JavaScript, Python, HTML/CSS, PHP, SQL
Frameworks: Angular, Bootstrap, Django, Express.Js, Java Spring Boot, JUnit, WebGL
Developer Tools: Docker, Eclipse, Git, Scene Builder, VS Code

Experience

Web Developer Intern May 2019 – Aug 2019
FY International LLC Salem, NH

- Developed a **Full-Stack** web application to manage the relationship between the company and individual wholesalers by using **Express.Js**, **Angular**, **MySQL**, **Git**, and **Agile Development**.
- Explored ways in designing a warehouse management software to reduce labor costs in warehouse operation.
- Increased the success of self synchronous bulk upload service by restructuring API.
- Maintained an internal e-Commerce inventory management website using **PHP** and **MySQL**.

Projects

Used Goods Marketplace Platforms March 2020 – Present

- Created **responsive** front-end web pages for users to log in, sign up, browse goods, and leave messages by using **JavaScript** and **HTML/CSS**.
- Created a **restful** back-end server to receive POST, GET, PUT, and DELETE requests by using **Django**, **Django Restful Framework**, **MySQL**, and **Docker**.
- Validated the user's signature by using **JWT token**.
- Visualized the user's address and its searching range by using **OpenStreetMap API**.

Tasks Management Website Jan 2020 – March 2020

- Developed a **Full-Stack** website to record tasks and retrieve tasks on requests by using **Java Spring Boot** and **Bootstrap**.
- Avoided the recording of similar tasks by designing own keyword parsing and comparing **algorithm** at the server.
- Created notification of remaining tasks every day through email by using **JavaMail** library.
- Visualized the tasks base on locations by using **Google Map API**.

CupCarbon Enhanced Jan 2019 – May 2019

- Created the database supporting, user system, network generator, and enhanced IoT sensors on a **Java open-source** IoT simulator named **CupCarbon** by restructuring application.
- Added the user system to diversify the simulation by constructing a new user interface and restructuring internal script language.
- Created a generator of uniform distribution IoT networks randomly without starting the whole application by using **Python**, **PyMongo** library, and **Pandas** library.
- Stored simulator parameters and simulation result in **MongoDB** by calling a new database class.