

Jicheng Lu

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MOTIVATION & OBJECTIVE

- Strongly desired to be a **Software Engineer at Wooter** with my problem-solving skills and fast-learning capability.

SKILLS

- Software development: **Agile, Behavior and Unit Testing, Client-Server** architecture, Pair programming, **AWS, Git**.
- Tech stack: **HTML, CSS, jQuery, AJAX, Bootstrap, Spring, Node JS, Angular, React, Vue JS, Ruby on Rails**.
- Database skills: **MySQL, MS SQL Server, SQLite, MongoDB, Google Firebase**.
- Programming languages: (Proficient) **Java, Python, PHP, JavaScript, C#, C++**, Pytorch; (familiar) **Ruby, TensorFlow**.

EDUCATION

- 2018.8 – 2020.12 **Master of Science** in Computer Science, Texas A&M University, GPA: **4.0/4.0**
- 2013.9 – 2016.3 **Master of Engineering** in Aeronautical Engineering, Shanghai Jiao Tong University, GPA: 3.8/4.0
- 2009.9 – 2013.6 **Bachelor of Engineering** in Aeronautical Engineering, Shanghai Jiao Tong University, GPA: 3.6/4.0

INTERNSHIP EXPERIENCE

- 2019.6- **Full Stack Software Engineer** (Cooperative Agricultural Research Center, Prairie View, TX)
- 2019.8
- Developed a **Java** mobile application “Weather&Soil” (a **Real-time Site-Specific** Irrigation Scheduling Tool for Agricultural Crops) to provide farmers and urban residents with local weather information and soil data. (https://play.google.com/store/apps/details?id=edu.pvamu.weatherandsoil&hl=en_US&gl=US)
 - Integrated the mobile app in the **Java** environment with **Google Map** to pinpoint users’ farms, and used **National Weather Service** and **Web Soil Survey** to obtain the forecasted weather and soil properties.
 - Developed an irrigation scheduling web app, “IrrigWise”, (using **Python-PHP-R-MySQL**) to provide users with irrigation plans for their crops, such as daily water usage of crops.
 - Built responsive App user interface on PC and mobile phone (using **Bootstrap, CSS, JavaScript**).
 - Integrated local **MySQL** DB with **PRISM** climate DB to observe **historical** and forecasted crop condition.

PROJECT EXPERIENCE

- 2020.10- **Java Spring Framework Training: Spring Framework 5: Beginning to Guru.**
- present
- Developed personal projects, “Pet Clinic” and “Recipe App” using Spring Framework 5, Spring Boot 2, Spring MVC, Spring Data JPA, Lombok, JUnit, Apache Tomcat, Thymeleaf and Docker.
 - Database involved: Hibernate, MySQL, MongoDB.
 - GitHub: <https://github.com/iceljc/Spring-Pet-Clinic2>, <https://github.com/iceljc/Spring-Recipe-App>.
- 2019.1- **TAMU Uber Software Control of Autonomous Vehicle** (Team role: Full-stack Developer)
- 2019.6
- Developed a software application that provides transportation service for handicapped students on campus.
 - Developed a safety driver interface using **Ruby on Rails** and managed the application on **AWS Cloud9** to report real-time vehicle status (e.g., tire pressure) and driving conditions (e.g., current air temperature).
 - Built responsive **front-end** user interface on PC and mobile phone using **Bootstrap, CSS, JavaScript**.
 - Performed **behavior and unit testing** using **Cucumber** and **Rspec** (Current best test coverage: 71%).
 - Communicated with stakeholders for updated requirements and iterated with **Agile** development cycle.
- 2018.7- **Database Management System and Java Tiny-SQL Interpreter** (Team role: Database Developer)
- 2018.12
- Developed a national ride-sharing system using **PHP-MySQL** so that users can post, cancel or pick a ride.
 - Designed a **parser** using **Java** to resolve **SQL** queries from user input using recursion and tree structure.
 - Developed a **Java relational database management system** to process resolved SQL queries from the parser, and realized SQL operations, e.g., select, insert, create, delete, drop.

FRONT-END EXPERIENCE & APP DEMO

- 2019.2- **Vue JS: “Stock Trader” - A stock trading platform.**
- 2021.2
- Developed a **Single Page Application** using **Http, Routing, Form Validation, Vuex and Firebase**.
 - Demo: <https://ljc-vue-stocktrader.firebaseio.com/> | GitHub: <https://github.com/iceljc/Stock-Trader-VueJS>
- 2019.1- **React: “Burger-Builder” - A burger builder and sales application.**
- 2021.1
- Developed a **Single Page Application** using **Http, Routing, Form Validation, Redux and Firebase**.
 - Demo: <https://burger-builder-react-ljc.firebaseio.com/> | GitHub: <https://github.com/iceljc/Burger-Builder-New>