

Yiting Shen

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Objective

Software Engineer Intern for Summer 2020

(Future full-time Visa sponsorship preferred but not required)

Education

Santa Clara University, Santa Clara, CA

Sep. 2019 - present

- **M.Sc.**, Computer Science and Engineering
- **Courses:** Advanced Web Programming (Ruby on Rails)

Tianjin University, Tianjin, China

- **M.Sc.**, Electronic and Communication Engineering (3.4 / 4.0) *Sep. 2016 - Jul. 2019*
- **B.Sc.**, Computer Engineering - Internet of Things Engineering (3.1 / 4.0) *Sep. 2012 - Jul. 2016*
- **Courses:** Object-oriented Programming (Java), Machine Learning, Computer Vision, Linux Programming, Microprocessor Systems, Computer Network, Visual C++ Programming, Digital Logic Circuit, Internet of Things

Technical Skills

- **Programming Languages:** Java, Python, SQL, Ruby, JavaScript, C/C++
- **Web:** Spring Framework, Ruby on Rails, Flask, Django, HTML, CSS, Bootstrap, React
- **Data Storage:** MySQL, PostgreSQL, Oracle, MongoDB, Redis
- **Others:** Machine Learning, Git, Linux, AWS, Alicloud, Heroku, Docker, Travis CI, Hadoop, Hive, HDFS, MapReduce, RESTful API Design

Experience

Research Assistant, supervised by Dr. Yongtao Ma, Tianjin University, Tianjin, China

Sep. 2016 - May 2019

- Primarily worked on using deep learning approaches to improve indoor localization accuracy. Proposed a two-dimensional deep learning classification approach for multi-targets localization.

Software Engineer Intern (Backend, Big Data) at IPTV, Tianjin, China

Jun. - Aug. 2018

- Worked as a backend engineer at **IPTV**, a company providing video streaming services. Primarily worked on the ads management platform. Developed new reports with **Java**, **Oracle DB**, **Spring Frameworks**, and **Hibernate**.
- Worked on several tickets using big data tools (**Hadoop**), including **MapReduce** jobs, **Kafka**, **HDFS**, and **Hive**.
- Optimized the performance running an advertiser report using backend caching (**Redis**) and paginated API calls. Reduced the end-to-end response time from ~60 seconds to ~5 seconds.

Projects

React-based Decision Maker

Oct. 2019 - present

- Working on building a simple **React**-based decision making app. Developed JavaScript code with ES6 standard, as well as modern JavaScript-based tech stacks, including: **npm**, **yarn**, **live-server**, and **babel**.
- GitHub: <https://github.com/shenyiting2018/indecision-app>

Django-based RESTful Recipe API

Jun. 2019 - present

- Built a dockerized web app with **Python**, **Django**, and **Django REST** framework, which allows users to read/write data (recipes, ingredients, and tags) to a **PostgreSQL** database via APIs designed with the **REST** pattern.
- Practiced **test-driven** development with unit tests covering every function. Automated the deployment process with **Git**, **Git hooks**, **Docker**, and **Travis CI** for continuous integration.
- GitHub: <https://github.com/shenyiting2018/recipe-app-api>

Flask-based Price Alert Web App

May - Sep. 2019

- Built a **Python** web app that allows registered users to set up price alerts for selected products on online stores.
- Developed the front end with **Jinja2** template engine, **HTML**, and **Bootstrap**.
- Built the back end with **Flask** and **MongoDB** database. Implemented price tracking service with **BeautifulSoup**. Integrated with **Mailgun** for the email alert service. Automated the deployment process with **Git** and **Heroku**.
- GitHub: <https://github.com/shenyiting2018/pricing-service>

Spring-based Vocabulary Builder Web App

Apr. - Dec. 2018

- Designed and implemented a **Java** web app to facilitate memorizing English vocabulary, which stores more than 6,000 words and 2,000 roots in a **MySQL** database. Developed useful features such as typeahead search tool, root/prefix/suffix auto-analysis tool, and a level/proficiency management system. Developed role-based access control for advanced features, including user management and user statistics reports.
- Developed the **AJAX**-based front end with **HTML**, **CSS**, **Bootstrap**, **jQuery**, **DataTables.js**, and **typeahead.js**.
- Designed the back end with layered architecture. Implemented it with **Java 8**, **Spring Boot**, **Spring MVC**, **Spring**, and **Spring Data**, with **Maven** for dependency management. Designed the **MySQL** table schemas supporting many-to-many relationships between models. Added indexes to improve query performance. Deployed the app in a **Tomcat** container, running on an **Alicloud** cloud instance with **Ubuntu OS**.
- GitHub: <https://github.com/shenyiting2018/toefl-vocabulary-helper>. Demo username and password: **demo / demo**.