

Yikun Li

(832) 783-0998 | yikunli10@gmail.com | LinkedIn: <https://www.linkedin.com/in/yikun-li> | GitHub: <https://github.com/YikunLi95>

EDUCATION

Rice University **GPA: 3.68/4.0** Houston, TX
Master of Engineering in Electrical & Computer Engineering Sept. 2020 - May 2022 (Expected)

- Selected Coursework: Analysis of Algorithms, Web Development and Design, Computer Systems Architecture, Introduction to Machine Learning, Introduction to Deep Learning, Applied Machine Learning

University of Missouri **GPA: 3.52/4.0** Columbia, MO
Bachelor of Science in Electrical Engineering Sept. 2017 - Dec. 2019

- Selected Coursework: Fundamental of Computer Science, Data Structure, C Language Program Design, Software Design in C++, Object-Oriented Programming in Java, Computer Networks/Connections, Introduction to AI

SKILLS

Languages: Java (2+years' experience), Python, SQL, C/C++, JavaScript, TypeScript, HTML, CSS, XML

Platforms: Unix/Linux, AWS, Git/GitHub, Spring/Spring Boot, Android, GCP, Angular

Technologies: JDBC, MySQL, Ajax, Node.js, React, Redux, D3.js, Docker, MangoDB, Hibernate, Apache Tomcat

EXPERIENCE

OpenStax, Natural Language Processing-based syllabi text parser Houston, TX
Research Assistant (Python, SQL) Feb. 2021 - May 2021

- Developed an Natural Language Processing-based syllabi text parser, and tokenized the raw texts using NLTK tokenizer
- Implemented learning histograms to predict the active learning trends using Bag of Words NLP technique
- Built a course topic classifier model using TF-IDF word embedder and MLP classifier pairs

PROJECTS

JobSearch: A Content-based Recommendation Engine for Jobs Hunting May. 2021 - Aug. 2021

- Designed an interactive web page for users to search and apply job positions, developed main front-end functions using HTML/CSS/Javascript, and optimized the async communication using Ajax
- Implemented RESTful APIs using Java servlets to handle HTTP requests and responses, retrieved job descriptions using GitHub API, and stored data in MySQL
- Extracted keywords from descriptions of positions using MonkeyLearn API and launched the project as an AWS EC2 application and performed load testing

Shopping+: A Spring and Hibernate-based Shopping and Ordering System Feb. 2021 - May. 2021

Used Spring framework to build a web application for users to shop and order items online

- Developed a web application based on Spring MVC to support item search and listing (dependency injection, inversion of control, REST API, etc.)
- Implemented security workflow via in-memory and JDBC authentication provided by Spring Security
- Utilized Hibernate to provide better support of database operations and improved item ordering using a Spring Web Flow for better abstractions

Full Stack Web and Mobile Development for Personalized News Recommendation Jan. 2021 - Mar. 2021

- Designed the Instagram Flavor News app based on Google Component Architectural MVVM Pattern
- Implemented the bottom bar & page navigation using JetPack navigation component
- Supported swipe gestures for liking/disliking the news with 3rd party CardStackView
- Built the Room Database with LiveData & ViewModel to support local cache and offline model and integrated Retrofit and LiveData to pull the latest news data from a RESTFUL endpoint (newsapi.org)

Starlink: React JS-based Starlink Trajectory Visualization Oct. 2020 - Dec. 2020

- Built a visualization dashboard using ReactJS and D3 to track satellites in real-time based on geo-location
- Developed location, altitude, and duration based selector to refine satellite search
- Animated selected satellite paths on a world map using D3 to improve the user friendness, and demonstrated the project by deploying the application to AWS EC2