

Junru Liu

979-219-1617 | junru.liu@tamu.edu | [linkedin.com/in/junru-liu](https://www.linkedin.com/in/junru-liu) | leonora-cat.github.io | Willing to Relocate

EDUCATION

Texas A&M University

Master of Computer Science, CGPA: 4.0

College Station, TX

Aug 2022 – May 2024 (expected)

Xi'an Jiaotong-Liverpool University

Bachelor of Science in Information and Computing Science, CGPA: 3.98

Suzhou, China

Sep 2018 – Jul 2022

EXPERIENCE

Software Engineer Intern

Sep 2023 – Dec 2023 (expected)

Analog Devices

Durham, NC

- Developed the frontend of graphical software of the next generation of communications products in **Linux** with **C#**

Software Engineer Intern

May 2023 – Aug 2023

Arbin Instruments

College Station, TX

- Developed the frontend User Interface of Schedule Editor page of Arbin's global customer software catering to users in over 20 countries using **React (TypeScript)** according to crafted prototypes from **Figma**
- Engineered an **Object-Oriented** architecture for a Label Generator software empowering the testing team using **C#**
- Launched a **GUI** Diagram Generator application for testing engineers with **C#** resulting in a 50% efficiency increase
- Utilized **Git**, **Jira** and **Azure Pipelines** for **Agile (Scrum)** development and **CI/CD**

Software Engineer Intern

Jun 2020 – Sep 2020

Shanghai Ideal

Shanghai, China

- Established a keyword extractor with **Flask**, **HTML**, **CSS**, and **JavaScript (jQuery)** improving efficiency by 60%
- Classified citizen complaints into various categories using **TF-IDF** with 84% accuracy in **Python**
- Developed a Question-Answering system in **Python** to support intelligent citizen hotline with an accuracy of 75%

PROJECTS

Life Cycle Relauncher | Java, Spring Boot, Vue, MySQL, Azure, Git

- Guided a nine-person team to develop a flea market application for second-hand goods for students at XJTLU going through **Software Development Life Cycle (SDLC)** from initial requirement analysis to final code deployment
- Developed **REST APIs** for *Product Display* and *Password Retrieval* with **Java** and **Spring Boot**
- Built a **MySQL** database and utilized **MyBatis** for efficient data mapping and interaction
- Implemented **automated Unit Tests** and **Integration Tests** with **JUnit** to detect software failures
- Utilized **Git** for version control and **Azure Boards** for **Agile (Scrum)** Project Management

Apartment Finder | Python, Django, React, MySQL, AWS, Git

- Led a team of six to rebuild *JJ Group Lease*'s apartment finder system leading to a 60% increase in efficiency
- Implemented *Sign Up* and *Submit Request* with **Python (Django)** and **JavaScript (React)** with **REST APIs**
- Adopted **MySQL** database to retrieve and store apartment and user data
- Accomplished **automated Unit Tests** and **Integration Tests** using **Django Test** with 90% code coverage
- Deployed the system to **AWS** and **Heroku** for public access
- Employed **Git** for version control and Pivotal Tracker for **Agile (Scrum)** Project Management

Power Transfer | Linux, Python, Parallel Computing, Socket, Encryption

- Built a **Peer-to-Peer** file sharing application with **multiprocessing** and **multithreading** in **Linux** with **Python**
- Designed a new **TCP**-based protocol for **real-time** reliable and efficient multi-purpose communication
- Adopted compression and **encryption** to achieve fast and secure transfer for large files up to 2GB within 50s
- Implemented seamless transfer recovery by effectively managing interruptions

TECHNICAL SKILLS

Languages: Python, Java, C#, C, C++, Ruby, SQL, PostgreSQL, JavaScript, TypeScript, HTML/CSS

Frameworks: React, Django, Spring Boot, JUnit, Flask, PyTorch, Tensorflow

Developer Tools: Git, AWS, Azure Boards, Heroku, Pivotal Tracker

Libraries: Winforms, Tkinter, pandas, NumPy, Matplotlib