**Xinru Wang**

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**education**

**Chongqing University** **Chongqing, China**

*Bachelor of Engineering in* ***Software Engineering*** Sep 2017 - Jun 2022

* **GPA:** 3.53/4.00
* **Relevant Coursework:** Data Structure and Algorithms, Database Principle and Design, Software Architecture and Design Patterns, Introduction to Artificial Intelligence, Introduction to Information Security, Introduction to Data Science, Discrete Mathematics
* **Awards:**
* Academic Scholarships (awarded for **four** consecutive semesters)
* Tang Zhongying Moral Education Scholarship (awarded to **four** students)
* Excellent Engineer Award
* Second Prize in the Contemporary Undergraduate Mathematical Contest in Modeling

**University of Cambridge** **Cambridge, UK**

*CL Global Cambridge Summer Academic Program, AI Class*Jul 2019 - Aug 2019

* Completed coursework and projects on Computer Science & Artificial Intelligence.
* Collaborated on the project “Graph Theory Application and Text Data Classification” in a team and received the “Best Group Project” award.

**publications**

**Wang, Xinru**, Jin, Xinran, Wu, Yongqiang, Liao, Yajing, and Lei, Dongchen. “Predicting product sales based on sentiment analysis using reviews: The case of Amazon's kindle.” ACE 6 (2023): 1641-1651. DOI: 10.54254/2755-2721/6/20230784.

**research experience**

**Data Science: Machine Learning and Natural Language Processing Remote**  
*Lead Developer - Advisor: Dr.* *Patrick Houlihan, Columbia University* May 2022 - Jul 2022

* Conducted research on analyzing the potential influence of reviews.
* Proposed a novel approach to predict sales by identifying the time lag of the interaction between reviews and sale fluctuations.
* Published a paper accepted by the 3rd International Conference on Signal Processing and Machine Learning (CONF-SPML 2023) as the lead author: “Predicting Product Sales Based on Sentiment Analysis Using Reviews: The Case of Amazon’s Kindle.”

**AI-aided Medical System For Short Stature Diagnosis Chongqing, China**

*Developer* *- Advisor: Prof. Mengning Yang* Nov 2021 - Jun 2022

* Applied deep learning techniques to assess the left hand-wrist radiographs of children for growth disorder diagnosis.
* Participated in the model training using attention-maps to identify the discriminative region for bone age expectation regression.
* Analyzed functional requirements, designed, and implemented a system for that purpose. Visit [*https://sirenar.github.io/graduate-project-baa*](https://sirenar.github.io/graduate-project-baa)

**LinkLocker: Smart Locker for Online Trading, Supported by a WeChat Mini Program** **Chongqing, China**

*Group Leader & Developer - Advisor: Prof. Mengning Yang*Sep 2019 - Dec 2020

* Created a WeChat-based mini program that serves as a social platform for information sharing and second-hand goods sales, from ideation to application, by leading a team of eight developers.
* Led an eight-member team to design and build a smart locker; the locker is equipped with Bluetooth LE IoT sensors for secure, self-service item exchange, enabling password-protected access and eliminating waiting times.
* Won the First Prize Award in the Southwest Division Selection Tournament of the 13th iCAN International Contest of Innovation.
* Receive angel investment amounting to over 2 million RMB from investors including STO Express.
* Granted a patent for an innovative invention. **Patent No.202021785066.3, Date of Grant: 2021.1**

**Graph Theory Application and Text Data Classification Cambridge, UK**

*Participant* *- Advisor: Dr. Thomas Sauerwald* Jul 2019 - Aug 2019

* Adopted a graph-based approach for contextual text normalization.
* Proposed a model – GRFEM (Gated Recurrent Feature Extraction Model) to encode-decode inputs and feed the neural network to normalize tokens.

**professional experience**

**Meituan Inc**   **Chengdu, China**   
*Software Developer (full-time)* Jul 2022 - Present

* Played a key role in the design and development of the low-code cloud-based development platform Wolf, a comprehensive online platform for building enterprise-level applications using low-code technology, and employed AIGC for user support.
* Implemented, maintained, and refactored Diting (諦聽), an internal CRM tool that enables frontline business analysts to perform self-service data retrieval and integration in drag-and-drop gestures, resulting in good user feedback.
* Migrated 6 existing projects to a comprehensive gateway for architecture upgrading, robustness, and scalability enhancement.
* Received promotion to Level 6 within one year for exceptional contributions to the company.

**Meituan Inc**  **Chengdu, China**  
*Intern* - *Front-end Develop**er* May 2021 - Sep 2021

* Assisted with implementing features in various projects, including user experience optimization and UI design enhancement.
* Coded adhering to latest standards and best practices, and engaged in the continuous delivery process.
* Performed timely troubleshooting and resolved technical issues.

**Chongqing Xiantao Big Data Valley Chongqing, China**

*Intern - Knowledge Manager* Summer 2020

* Engaged in on-site research at an optical fiber manufacturing facility, contributing to the collection and processing of shop floor and manufacturing data utilizing a cloud platform and MES to facilitate the construction of data-driven decision-making models.
* Drafted a knowledge management planning proposal for knowledge sharing between projects.

**extracurricular activities**

**Building and Running a Personal Website Online**

*Blogger & Developer* Jul 2021 - Present

* Constructed a website to show portfolio and share thoughts, visit [*https://sirenar.github.io*](https://sirenar.github.io)
* Wrote 66 blogs and implemented features for comment and blog categories.

**Campus Student Union Chongqing China**

*Director of the Liaison Center in the Student Union Secretariat* Sep 2017 - Jan 2019

* Managed campus, college, and class-level liaison, as well as intercollegiate communication.
* Honored with the “Star Staff” award.
* Served as a grade manager, organizing internal college events and assisting tutors with scholarship applications.

**Miscellaneous Volunteer Activities Chongqing, China**

*Volunteer* 2018 - 2019

* Engaged in volunteer activities such as “Community Classroom,” “Love Tutoring,” “Kindness 100 Care Packages,” and “Bookworm Volunteer Service,” in collaboration with the local governments.

**skills & interests**

**Coding Skills:** Python, C++, R, TypeScript, JavaScript (including Node.js), Java, Shell scripting, SQL, CSS

**Software & Tools:** Git, Visual Studio Code, MySQL Workbench, Postman, Jenkins, Chrome DevTools, VirtualBox, Anaconda

**Languages:** Mandarin (native), English (fluent)

**Interests:** Go (four-dan, once won city-level women’s championship)