

Ziru “Ron” Chen

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EDUCATION	The Ohio State University , Columbus, OH B.S. Computer and Information Science , Mathematics Minor	Expected: May 2022 GPA 3.973 / 4.0
PROFESSIONAL EXPERIENCE	Undergraduate Research Assistant , The Ohio State University - Advisor: Dr. <i>Huan Sun</i> - Research Topics: Text-to-SQL, NLP for Programming, Natural Language Interface	Dec 2020 – Present
	Undergraduate Research Assistant , The Ohio State University - Advisor: Dr. <i>Zhenzhong Lan</i> - Research Topic: Open-Domain Dialogue	May 2021 – Present
	Student Instructional Assistant , The Ohio State University - <i>CSE 2321 Foundations I: Discrete Structures</i> (AU19; SP20; AU20)	Aug 2019 – Dec 2020
HONORS	CSE Departmental Scholarship , The Ohio State University Dean’s List , College of Arts and Sciences (5 semesters)	2021 2018 – Present
RESEARCH EXPERIENCE	Cross-Database Generalization for Text-to-SQL - Advisor: Dr. <i>Huan Sun</i> Recent advances in Text-to-SQL have achieved high accuracies on different benchmarks. However, most of them exhibit a performance drop when applied across databases. We comprehensively surveyed existing methods to mitigate this problem and compared them with fair experimental settings and evaluation matrices.	Dec 2020 – Present
	Counts and Measurements in Scientific Texts - Course Project, CSE 5525 Speech and Language Processing Quantities are critical for NLP models to understand scientific and medical texts. In this project, we investigated the dataset released at SemEval 2021 Task 8. We conducted data analysis for frequent patterns and implement a neural model with BERT for proposed NER tasks.	Sep – Dec 2020
QUALIFICATIONS & SKILLS	Professional Skills: - Programming Languages: <i>Python, C, Java, MATLAB, Ruby, JavaScript</i> - ML / DL Toolkits: <i>Numpy, Pytorch, Tensorflow, Pandas, Matplotlib, Sklearn, NLTK</i> - Coursera Certifications: <i>Applied Data Science, Math for Machine Learning</i> - Other Computer Science Skills: <i>Linux, Git, HTML and CSS, LaTeX, Ruby on Rails</i> Languages: - <i>Chinese (Native), English (Proficient), Japanese (Moderate; JLPT N2), Korean (Elementary)</i>	
STUDENT ACTIVITIES	Secretary , CSE/CIS Peer Mentors - Manage an organization of 30 people and motivate new peer mentors - Design and maintain organization website and mentor profiles - Volunteer to assist transitions of first-semester students in person or online	Aug 2019 – Present
	Active Member , Chinese Students and Scholars Society - Attended meetings regularly to plan future events with other members - Presented to introduce Computer Science at Chinese Freshmen Welcome Party - Volunteered at events with more than 500 participants	Sep 2018 – Dec 2020