

Zhengrui Lu

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SUMMARY

Software Engineer working for full-stack application development with a passion in education.

EDUCATION

Master of Science - Computer Software Engineering Sep 2021 - May 2023

NORTHEASTERN UNIVERSITY GPA: 4.0/4.0

Related Courses: **Program Structure and Algorithms, Application Modeling and Design, Application Engineering and Development, Data Science Engineering with Python**

Master of Education (M.Ed.) GPA: 3.78/4.0 (top 5%) Sep 2017 - Jun 2019

LANZHOU UNIVERSITY Lanzhou, china

Bachelor of Arts (B.A.) GPA: 3.69/4.0 (top 3%) Sep 2009 - Jun 2013

SKILLS

Languages: Java, Python, JavaScript

Tools & Technologies: HTML, CSS, GitHub, JSON, pandas, Linux

Frameworks & APIs: Django, Twitter APIs

Databases: MySQL

Interpersonal: Excellent communication and Time management, Team organization, Organized & able to present information in a clear concise manner

EXPERIENCE

Teacher Assistant | Northeastern University College of Engineering Sep 2022 - Dec 2022

- Hold office hours to help students understand thoroughly about Python, and develop a deep understanding of built-in and abstract data types in Python
- Help students learn tips for reading in large datasets into pandas

Microsoft Tech Resilience Program - Mentee Participant Feb 2022 - March 2022

- Improved the effectiveness of peer mentors
- Leveraged self-regulation and cognitive flexibility to work
- Assisted mentors to communicate with team strategically through mirroring and coaching

PROJECTS & CERTIFICATIONS

Django - Full Stack Websites with Python Web Application Development April 2022

- Created a digital resume -- using **Django's** URL routing and **Python** in the back-end.
- Self-learned **HTML5, CSS3, JavaScript**, and **Bootstrap** via freeCodeCamp
- Deployed the application onto Microsoft **Azure's** App Service and **AWS**(Elastic Beanstalk)

Twitter Data [Sentiment Analysis](#) for SEL Curriculum Design Oct 2021 - Dec 2021

- Implemented a program to perform sentiment analysis of Twitter data -- Loaded Tweets, calculated Tweets popularity and trended hashtags with **Python** and **JSON**.
- Tested 12.3 MB live data via **Twitter APIs** to mock the unit test. Analyzed and interpreted, data with pandas and Numpy

Chem-Aware App | [Hackathon](#) Oct 2021

- Designed a mobile app to check chemical compounds for ensuring the safety of household chemicals, using Python, Pubchem-Pug API, Swift, iOS, JSON, Xcode
- Aligned group and managed scope and timeline while ensuring value realization of the project. Counseled with the Mobile Engineers and Product Managers of the sponsor to effectively articulate technical challenges in database and marketing challenges

[Responsive Web Design](#) Developer Certification | freeCodeCamp April 2022