Renee **Zha**

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EDUCATION

NORTHWESTERN UNIVERSITY
BS in Computer Science
June 2019 | Evanston, IL
McCormick School of Engineering and Applied Science
GPA: 3.65 / 4.0

COURSEWORK

Analysis of Algorithms
Artificial Intelligence
Computer Networking
Computer Systems
Computer Vision
Data Structures and Management
Introduction to Data Science
Digital Forensics/Incident Response
Game Design and Development
Human–Computer Interaction
Machine Perception of Music
Operating Systems
Programming Languages
Spatial Computing

TA: Fundamentals of Programming
Data Structures and Management

SKILLS

PROGRAMMING LANGUAGES
Python • C • C++ • C# • Java
JSP • HTML • CSS • Javascript
Racket • MATLAB • LaTeX

LIBRARIES AND TOOLS
Eclipse • GIS • Git
OpenCV • scikit–learn

LANGUAGES

English (native)
Mandarin Chinese (conversational)
French (written and verbal fluency)

LINKS

GitHub: **reneebot**
LinkedIn: **reneezha**

WORK EXPERIENCE

ACCENTURE | Chicago, IL
Advanced App Engineering Senior Analyst | August 2019 – present
BENEFITS PLATFORM IMPLEMENTATION | Application Developer
- Using technologies including **Java, JSP, Oracle WebLogic Server**, implemented a benefits management platform with custom upgrades for a state government agency.
- Delivered 50+ defect fixes across multiple aspects of the platform, demonstrating broad knowledge and quick comprehension of complex issues through thorough debugging and design review principles.

VACCINE PORTAL IMPLEMENTATION SUPPORT | Business Analyst
- Diagnosed root causes of service tickets and acted as a liaison between help desk support staff and technical development teams. Triaged defects and tracked them to completion.
- Interfaced directly with end users to ensure application standards and performance.

COVID RAPID RESPONSE PROJECT | Training Lead/Support Analyst
- Served as an adviser to unemployment claim filers and over 100 project members. Appointed as a backup team lead to manage the largest (50+ member) team of the project in the regular team lead's absence.
- Core member of the agent training team, constantly developing and presenting training material to over 8 waves averaging 40 trainees each.

RESEARCH EXPERIENCE

PEOPLE, SPACE, AND ALGORITHMS LAB | Evanston, IL
Research Assistant | June 2018 – August 2018
- Worked under **Prof. Brent Hecht** to investigate the ramifications of implementing a system to give credit to users who provide data to predictive machine learning systems.
- Using recent machine learning research, implemented code to estimate the value of individual data points to predictive models, evaluate their costs and accuracies, and explore how credit might be distributed.
- Performed experiments for a variety of different datasets, machine learning tasks, and models, including logistic regression and CNNs.

ARGONNE NATIONAL LABORATORY | Lemont, IL
Research Assistant | June 2017 – August 2017
- Utilized computer vision and machine learning techniques to quickly and accurately classify and segment two different plant species in images.
- Implemented a workflow to process raw images for future researchers.
- Collaborated with the **Waggle** environmental sensing team to build and deploy a Waggle sensor unit at the Chicago Botanic Garden.

LEADERSHIP

TEACHING ASSISTANT | Northwestern University
- Mentored over 1,000 students in **functional programming** fundamentals using **C++** and **Racket** by holding four weekly office hours and tutorials.
- Mentored over 200 students in basic data structure and algorithmic concepts including linked lists, hash tables, graphs, and time complexity.
- Answered questions and reinforced in–class concepts during weekly discussions, office hours, and via the online Q&A platform Piazza.