

# Yue Zhang

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## OBJECTIVES

Seeking for position in Artificial Intelligence or Computer System that integrate Data-Driven Techniques from cross disciplinary domains. I have worked for Biological and Medical, Therapeutic, and Vision/Deep-Learning applications and softwares.

## EDUCATION

### **The Ohio State University**

Columbus, Ohio

- *Bachelor of Science in Computer Science Engineering with Honor Research Distinction* 2017.8 – 2020.12
- Honor: Women in Computer Science Scholarship, Undergraduate research Scholarship, Dean's List for all semesters.
- Current GPA: 3.917 (4.00 scale)
- Vice President at CIS/CSE Peer Mentors club, Peer Mentor at CSE department
- HackOHI/O Hackathon organizer, Volunteer at Engineering Exposition, Volunteer at Mock Career Fair

## SKILLS

- **Technologies:** Java, Python, Ruby on Rails, C#, HTML, CSS, JavaScript, C/C++, MATLAB, PHP, MySQL, PyTorch, TensorFlow, Angular JS, React, Django, Android Studio, Unity3D, Docker, Git, Linux.

## PROFESSIONAL EXPERIENCE

### **Department of Biomedical Informatics (BMI)**

2020.2 - present

#### **Undergraduate Research Assistant**

- Compare several deep learning models (Inception-v3, ResNet, etc) accuracy and complexity on glaucoma detection
- Create a new deep learning model with several Inception blocks based on model architecture and comparison results.
- Yue Zhang and Xiaoyi Raymond Gao (advisor), "Glaucoma Detection on Cardiovascular Patients via Ensemble Deep Learning". In submission to AMIA2021 Virtual Informatics Summit.

### **Department of Computer Science and Engineering (CSE)**

2019.9 - present

#### **Undergraduate Research Assistant**

- Compare energy consumption of different deep learning models on edge devices
- Design configuration management tool for Machine Learning software updates deployed at the edge service
- **Publication:** Yue Zhang and Christopher Stewart (advisor), "Poster: Configuration Management for Internet Services at the Edge: A Data-Driven Approach". Accepted by The Fifth ACM/IEEE Symposium on Edge Computing (SEC).
- Yue Zhang and Christopher Stewart (advisor), "Configuration Management at the Edge Services". In submission to IFIP/IEEE International Symposium on Integrated Network Management 2021.

#### **Undergraduate Teaching Assistant**

2019.1 - present

- CSE 5236: Mobile Application Development
- CSE 2421: System I: Introduction to Low-Level Programming and Computer Organization
- CSE 2331: Foundation II: Data Structures and Algorithms
- CSE 1223: Introduction to Computer Programming in Java

## WORK EXPERIENCE

### **Block Eleven LLC**

Columbus, Ohio

#### **Software Developer Internship**

2020.5 – 2020.8

- Designed and developed bitcoin exchange app in Java
- Built functionalities including bitcoins transaction, user searching, active user list, account information, login/signup etc.
- Developed back-end database management, functionalities, and front-end user interface.

### **School of Communication at The Ohio State University**

Columbus, Ohio

#### **Student Web Developer**

2019.8 – 2019.12

- Developed a website with different categories of readings with Angular JS framework and PHP
- Used MySQL to develop and maintain lab database.

### **Speech and Hearing Science Department at The Ohio State University**

Columbus, Ohio

#### **Student Software Developer**

2019.1 – 2019.12

- Used the Unity platform and C# to develop a rhythm training application for chronic aphasia patients
- Combined computer science technology with neuroscience to provide speech recovery following rhythm-based therapy.

## PROJECTS

### **Game Recommender Website**

- Used React and Django to develop a Game Recommender Website with IBM Discovery and Twitch Developers
- Built functions including game keyword searching, automatic recommending based on searching history and game tag, etc.

### **Expiration Date Tracker**

- Used Java and Android Studio to develop an Expiration Date Tracking mobile app.
- Built functionalities including product listing and modification (add, edit, delete), category listing and modification, user information checking, expiration date notification on calendar, barcode scanning for product adding, login/signup, etc.

### **Book Exchange Website**

- Used Ruby on Rails to create a book exchange website for OSU students with school email to login.
- Built functionalities including book filtered searching, book selling, sorting based on conditions and prices, login/signup, personal pages, client/admin views, user protection, etc.