Xiao Yang

Preferred Name: Katherine | kathyang116@gmail.com | kathxyang.com | 678-977-4605 | Atlanta, GA

EDUCATION

Georgia Institute of Technology | GPA: 3.58 Jan. 2021 – Dec. 2023

B.S. Computer Science – Concentration: Intelligence & People

- Relevant Coursework: Data Structures and Algorithms, Objects and Design, Object Oriented Programming, Design and Algorithm, Database Systems, Machine Learning, Artificial Intelligence, Design Analysis/Algorithms

B.S. Mathematics

- Relevant Coursework: Applied Combinatorics, Probability Theory, Complex Analysis, Linear Algebra, Numerical Analysis, Number Theory, Partial Differential Equations.

EXPERIENCE

Amazon May. 2023 – Aug. 2023

Software Engineer Intern

- Designed and implemented an algorithm to reduce duplicate garbage within the Storage Gateway volume system.
- Reduced duplicates by 98% inside of one of the Amazon SQS queues for volume garbage deletion.
- Added metrics, alarms, and new dashboards to reduce system outage and downtime through AWS CloudWatch.
- Discovered and resolved the issue of garbage system sending metrics to the wrong region.

Micro Connect Jan. 2023 – May. 2023

Software Engineer Intern

- Researched and presented solutions on potential blockchain technologies to track money flow from investors to small businesses.
- Built a Hyperledger Fabric test network on multiple hosts using Swarm with CouchDB capability to store the blockchain activities.
- Used as a template for future blockchain deployment on Kubernetes cluster.

OIT of Georgia Tech May. 2021 – Jan. 2023

Computing Support Assistant

- Assist ~50 GT staff members over the phone and in person weekly through remote support software.
- Prepare and image equipment for the full-time GT employees.

Comparative Neuromechanics Lab of Georgia Tech Jan. 2021 – Jan. 2023

Undergraduate Research Assistant

- Collected and analyzed data using 3D motion capture software and reconstruct/derive biological segments.
- Reviewed and commented on journals, as well as assisted in the administration of a national scientific conference (American Society of Biomechanics) in year 2021.

PROJECTS

Physics IQ Project Jun. 2022 – Dec. 2022

- Designed and implemented a solution to determine if there is a difference between athletes' and non-athletes' ability to predict projectile motion.
- Developed a computer-based projectile prediction simulation using Unity with C#.
- Calculated the timing prediction errors in combination with the spatial prediction error and other performance matrices to determine a person's reflexive ability.

Vehicle Plate Recognition System based on Deep Learning Algorithm Jun. 2022 – Aug. 2022

- Used DBSCAN to isolate the license plate area of each car image from a large car image database containing difference sizes and angles.
- Used convolutional neural network with 6 layers to train the model and identify characters from the license plate.

Travel Reservation Service Aug. 2021 – Dec. 2021

- Built a MySQL database using a relational schema to store users' information and their planned travel activities.
- Designed queries to quickly and effectively extract, store, and parse data.

Skills

Java, Python, C#, C, MySQL, Docker, Linux, Unity, Vicon, Brazil, Git, Mockito, CouchDB, JavaScript, AWS, LaTeX