Harrison Zhu

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# **Education**

* Georgia Institute of Technology - B.S. in Computer Science - expected graduation: May 2023
* Relevant Coursework: Design of Algorithms, Data Structures and Algorithms, Database Systems, Machine Learning, Objects and Design, Object-Oriented Programming
* GPA: 4.0; Faculty Honors for 5 semesters.

# **Work Experience**

## **Microsoft | Software Engineering Intern | Atlanta, GA**

### ***May 2021 – Aug. 2021***

* Implemented a compute and networking diagnostics tool for new servers in the Azure Dedicated ecosystem.
* Designed a system to track and log information during cloud resource allocation using Azure Services.
* Aggregated and coordinated data sources from multiple teams across Azure Dedicated into a unified UI.
* Contributed maintainable code that consistently passed unit tests and code reviews from senior engineers.
* Established tooling for engineers that significantly reduced the time to mitigate issues and supplemented tooling with documentation that was praised by principal engineers and architects.

## **Georgia Institute of Technology | Teaching Assistant (Data Structures & Algorithms) | Atlanta, GA**

### ***May 2020 – present***

* Collaborated with a team of 30 co-TAs to grade assignments and create resources for over 600 students.
* Coordinated bi-weekly office hours to help students learn and implement concepts correctly.
* Held weekly recitations, managed student questions during lectures, and answered student questions online.
* Contributed to comprehensive reviews of documentation, unit tests, and code necessary for the course.

# **Projects**

**Data Structures and Algorithms Visualization Tool**

* Fixed algorithm implementations in the open-source CS 1332 visualization tool used by 600+ students.
* Created visualizations using JavaScript, React, and the USF animation API.
* Implemented feature requests that increased the tool’s effectiveness in helping students visualize data structures and algorithms as well as in helping instructors teach concepts.

**Squiggle**

* Implemented a front-end interface for a restaurant load-balancing web application during HackGT7.
* Employed React, JavaScript, and CSS to create and style React components for use in the interface.

# **Skills**

* Programming Languages: Java, Python, JavaScript(Node.js), CSS, HTML, C#, SQL/MySQL
* Technologies: Git, LaTeX, Jupyter Notebooks, React, Numpy, PyTorch, scikit