

Zhuoqun Song

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Work Experiences

Teaching Assistant

Spring 2023 to Present

University at Buffalo

Buffalo, NY

- Formalized programming assignments and designed test cases to assess students' understanding of object-oriented programming
- Lead lab sessions, held office hours and provided one-on-one support to students on key topics such as inheritance, polymorphism, encapsulation and abstraction
- Debugged students' code, identified errors, and provided actionable feedback on how to correct them
- Assisted the course instructor in developing course materials, including lab assignments and practice problems, to help students build their programming skills

Research Assistant

Fall 2020 to Summer 2021

Purdue University

West Lafayette, IN

- Conducted research on the usability and user experience of virtual reality systems, specifically focusing on immersive simulations of real-world environments
- Communicated with principal investigators to coordinate qualitative research into human interactions and relationships while in a virtual environment
- Worked both independently and collaboratively in a fast-paced laboratory environment.
- Validated and analyzed incoming data to check information accuracy and integrity while independently located and corrected concerns.

Projects

OpenRocket Plugin

Fall 2023

- Designed and developed a plugin for the OpenRocket rocket simulation software using Java, allowing users to import and analyze personal avionics
- Conducted testing and troubleshooting to ensure compatibility with the latest version of OpenRocket, and resolved technical issues through debugging and refactoring
- Partnered with other developers in the OpenRocket community to resolve compatibility issues between the plugin and different versions of the software

Hyatt Award Availability Web Scraper

Winter 2022

- Developed a web scraping script using Python and BeautifulSoup library to extract data from Hyatt.com, including room prices, award free night availability, and award cost
- Configured the script to automate data extraction on a regular basis, and store the results in a database
- Collaborated with a mentor to identify areas of improvement for the script, and implement more advanced scraping techniques

Education

University at Buffalo, Buffalo, NY

B.S. Computer Science, expected graduation 2024

Java, Python, C, Scala, Java Script, Matlab

OOP, Systems Programming, Data Structures, Discrete Structures