Reggie (Hong) Yiu Zheng

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Portfolio: hongzheng24.github.io/portfolio/

EDUCATION

Brown University, Sc.B in Applied Mathematics-Computer Science   Providence, RI | Class of 2024
- Relevant Courses**:** Machine Learning, Computer Vision, Software Engineering, User Interface and User Experience

Mississippi School for Mathematics and Science (MSMS), 4.00/4.00 GPA   Columbus, MS | Class of 2020

JOB EXPERIENCE

Computer Science and Mathematics Instructor, Juni Learning   San Francisco, CA (Remote) | May 2022 – Present
- Execute advanced mathematics and computer science lesson plans from AP Calculus to Python Level 3 over Zoom for students ages 8-18 while adapting to student pace, interests, and needs
- Communicate with parents regularly, providing updates on student progress and results from assessments
- Maintain thorough records for each student, covering multiple courses, skill progression, and projects

Web Editor and Event Coordinator, Zeta Delta Xi   Providence, RI | Jan 2021 – Present
- Modernize and maintain the Zeta Delta Xi website and design eye-catching posters for 10+ events
- Foster an LGBTQ-friendly space at Brown University by organizing 20+ events such as the Trans and Nonbinary Ice Cream Social, QTPOC Potluck, and the FGLi Brunch

Applied Mathematics Undergraduate Teaching Assistant, Brown University   Providence, RI | Aug 2021 – Present
- Undergraduate teaching assistant for APMA 0360: Applied Partial Differential Equations
- Administer 2 weekly office hours and answer questions on the virtual platform Ed to guide students through assignments
- Grade 100+ weekly homework assignments and exams while providing feedback

PROJECTS

Better Brown University, Brown University   Providence, RI | Jan 2022 – May 2022
- Developed, in a team, the Better Brown University website with functionalities such as a crowd-sourced event calendar and an algorithm that calculates how busy a campus location is
- Worked on frontend web design, backend database storage, backend algorithms, graphic design, data collection, and testing using TypeScript, React, HTML & CSS, and Selenium

Seam Carving Algorithm and Visualizer, Brown University   Providence, RI | Jun 2021 – Aug 2021
- Programmed, in Java, a seam carving algorithm and visualizer for content-aware image resizing that removes paths of pixels by calculating least importance based on deviance in RGB color value from neighbor pixels

Iterative Dichotomiser 3 (ID3) Algorithm and Visualizer, Brown University   Providence, RI | Jun 2021 – Aug 2021
- Implemented, in Java, the Iterative Dichotomiser 3 (ID3) machine learning algorithm to create the most optimal decision tree given training data by calculating the information gain, remainder, and entropy of input attributes

LEADERSHIP EXPERIENCE

Out in Computer Science (Spectrum), Co-President and Event Coordinator   Providence, RI | Aug 2021 – Present
- Hosted 5+ social events to encourage LGBTQ+ programmers to connect with each other and to foster an inclusive space for queer and transgender people in computer science

International Culture Festival Committee, Co-Founder and Co-President   Columbus, MS | Aug 2018 – May 2020
- Co-founded and organized the biannual International Culture Festival which seeks to bring together people of unique backgrounds and cultures through food, activities, and more

SKILLS

React, Machine Learning, JavaScript, TypeScript, Python, Java, HTML & CSS, Praat, Figma, LaTex