

# Howard Qian

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## Education

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**Rice University, George R. Brown School of Engineering - 3.89/4.00**

Bachelor of Science in Computer Science, Minor in Data Science

**Houston, TX**

*Expected May 2024*

## Projects

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### **Live Group Music Queuer (AppleScript/Python)**

August 2021 - Present

- Developed an application to allow multiple people to add to a music queue in live time
- Compatible with Youtube Music and Spotify; currently integrating Apple Music

### **NLP Article Headline Classification Model (Python/SKlearn)**

August 2021

- Created a model which categorized article headlines into their respective categories
- Used a dataset of 200,000 headlines with 41 categories and achieved ~75% accuracy

### **Gym Registration Bot (Python/Selenium)**

August 2020 - January 2021

- Developed an automated bot/script that registers for college gym slots to be sold as a product
- Took initiative to create a more convenient registration system for students at Rice to use

## Experience

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### **Dr. DeLucia Human Computer Interaction Lab - Rice University**

**Houston, TX**

*Research Analyst*

May 2021 - Present

- Develop R code to analyze STISIM data in efforts to publish a paper on driver responses to lead vehicles
- Convert SAS analysis code to R to facilitate a shift in software usage in social science research at Rice
- Self taught R and holding seminars for the lab PI and members to learn R

### **Rice Consulting Club**

**Houston, TX**

*Business Analyst*

September 2020 - Present

- Advised a Houston tech start-up with pricing strategy and expansion strategy with the goal of doubling revenue
- Advised a Non-Profit Organization with identifying sponsor organizations for the 2020 Shenzhen High-Tech Fair
- Collaborated with a team of 5 to solve real-world business challenges and present findings through a deliverable

### **Dr. Lin Efficient and Intelligent Computing Lab - Rice University**

**Houston, TX**

*Machine Learning Intern*

June 2021 - September 2021

- Implement FBnet algorithm in Keras to be run on mobile devices through Tensorflow Lite which designs efficient CNN based on a device's hardware capabilities with latency, FLOPs and accuracy as metrics
- Self taught Keras and PyTorch APIs to learn more about deep learning and CNNs

### **Internship at U.S. Congressman Jim Himes' District Office**

**Bridgeport, CT**

*Spring Congressional Intern*

January 2019 - May 2019

- Facilitated constituent cases with the Federal government to expedite visa requests, and veteran affairs
- Directed correspondences between constituents and the Congressman

## Skills

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**Coding: Python, R, Tensorflow, PyTorch, Java, SQL, HTML/CSS, Javascript, AppleScript, SAS**

**Languages: English, Spanish (Basic), Chinese (Basic)**

**Interests: Soccer, Rugby, Grilling, Hiking/Cliff Jumping, Reading, Basketball, Weight Lifting, FIRST Robotics**