

Shawna Huang

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EDUCATION

Brown University

Sc.B in Computer Science; 4.0 GPA

- Courses: An Integrated Introduction to Computer Science; Introduction to Engineering; Dynamics and Vibrations; Equilibrium, Rate, and Structure; Transcending Transportation Impacts; Principles of Economics

Portage Central High School

- International Baccalaureate Diploma; 4.0 Unweighted GPA; Class Rank 1/328; National Merit Finalist; United States Presidential Scholars Program Semifinalist; National Honor Society Chapter Officer; School Community Service Award

Providence, RI

Expected Graduation: May 2020

Portage, MI | Sept. 2012 – May 2016

COMMUNICATION AND LEADERSHIP EXPERIENCE

Brown University Bruin Club, *Physical Sciences Tour Guide*

- Introduce groups of up to 30 prospective students to the physical sciences campus and departments.
- Provide information and answer questions to encourage prospective students to apply and study STEM at Brown.

Providence, RI | Feb. 2017 – present

Brown Class Coordinating Board, *Class of 2020 Public Relations Officer*

- Collaborate with a team of 6 students to plan and organize community building events for the Brown Class of 2020.
- Spearhead publicity campaigns for such events through designing posters and coordinating social media.

Providence, RI | Sept. 2016 – May 2017

Portage Central Science Olympiad, *Team Captain*

- Coordinated a team of 15 students in preparing for and competing in science and engineering tournaments.
- Explored various fields of science and engineering, including forensic science, geology, physics, and protein modeling.
- Won regional and state awards, including 4 individual awards in the top 6 and 10th place as a team at the state level.

Portage, MI | Nov. 2012 – May 2016

Central Stampede, *Editor-in-Chief*

- Directed a team of 30 students in writing stories, editing content, and designing pages for the student newspaper.
- Delegated stories and page design while overseeing all editorial and design decisions for each monthly issue.

Portage, MI | Sept. 2014 – May 2016

Portage Central Forensics, *Member*

- Competed in public speaking tournaments in the informative category (5-8 min. speech paired with visual aids).
- Developed communication skills, including public speaking and delivering information concisely and effectively.

Portage, MI | Nov. 2013 – May 2016

Leadership Initiatives International Business Alliance Program, *Media Chair*

- Worked with KT Textiles and Dwelries (Nigeria) to develop new business strategies and marketing campaigns.
- Promoted the program to ensure it received attention in local and school media and in national campaigns.

Portage, MI | Nov. 2014 – Nov. 2015

RELEVANT PROJECTS

Vibration Isolator Project, *Dynamics and Vibrations*

- Collaborated with 3 students to design and fabricate a device to minimize vibrations of a platform on a shake table.
- Analyzed vibration modes and calculated natural frequency and damping to optimize performance.

Providence, RI | April 2017

Search Project, *An Integrated Introduction to Computer Science*

- Collaborated with a partner to build a search engine to find relevant documents when given a free text query by the user.
- Utilized hash maps and functional and object-oriented principles to program term frequency and page rank algorithms.

Providence, RI | March 2017

Predator-Prey Design Project, *Dynamics and Vibrations*

- Collaborated with 3 students to design strategies for a fast, poorly maneuverable predator chasing a slow, agile prey.
- Programmed both predator and prey strategies in MATLAB, developing skills in force analysis and iterative code design.

Providence, RI | March 2017

Mass Launcher Design Project, *Dynamics and Vibrations*

- Collaborated with 3 students to design a system of springs and masses to launch the top mass at maximum velocity.
- Utilized MATLAB to analyze data and forces, solve differential equations, optimize velocity, and plot data.

Providence, RI | February 2017

Paw-sitivity Web Application, *Hack@Brown 2017*

- Gained knowledge about APIs, HTML, CSS, JavaScript, and Meteor, while also developing team programming abilities.
- Built a web application designed to send anonymous emails, filtering out negative messages to promote positivity.

Providence, RI | February 2017

Laptop Stand Design Project, *Introduction to Engineering*

- Designed and fabricated a laptop stand to fit another student's specifications through sketching and prototyping.
- Analyzed forces acting on the laptop stand, the iterative design process, and user satisfaction with the final product.

Providence, RI | November 2016

ADDITIONAL SKILLS

Technical: *Advanced Knowledge:* Java, MATLAB, Racket, OCaml, Microsoft Office, Adobe Creative Suite; *Intermediate Knowledge:* UNIX/Linux, Scala, JavaFX, HTML, CSS, Visual Basic, Solidworks, LaTeX; *Beginning Knowledge:* JavaScript, Python

Languages: *Native Speaker:* English, Mandarin; *Proficient:* Spanish

Interests: Swimming, Crochet, Movie Scores, Piano