

Ashley Chon

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Education

Brown University - B.S. in Computer Engineering - Certificate in Data Fluency

Sep 2019 - May 2023 | 4.0 GPA

Relevant Courses: Introduction to Engineering, Dynamics and Vibrations, Computing Foundations: Data, Computing Foundations: Program Organization, Electricity and Magnetism, Statistical Inference, Digital Computing Systems, Electrical Circuits and Signals, Linear Algebra, Data Structures and Algorithms

Work Experience

Undergraduate Teaching Assistant - Computing Foundations: Data

Aug 2020 - Dec 2020

- Holding office hours, helping 370+ students debug code in Pyret and Python
- Developing and updating course website using HTML/CSS/JavaScript while meeting departmental accessibility standards

Brown University Music Department - Production Assistant

Sep 2019 - Mar 2020

- Running department events and helping with stage management, door control, ticket sales, program pick-up and distribution, fire safety management, reception setup and breakdown, lighting control, and backstage management

Campus Leadership

Meiklejohn Peer Advising - Leadership Committee

May 2020 - Present

- Recruiting and training 400+ peer advisors on cultivating meaningful advising relationships and embodying socially-conscious advising for 1600+ first-years
- Collaborating directly with the Dean of the College on initiatives while thinking programmatically about advising @ Brown and how to improve the first year experience at scale
- Advising group of 5 first-years with a faculty advisor during the academic year

Society of Women Engineers - Social Media Chair & Technical Project Manager

Oct 2019 - Present

- Managing Instagram and Facebook pages, photographing all events
- Spearheading mentor program to facilitate personalized advising relationships among female engineers at Brown
- Project manager for web development team through website design in collaboration with Brown's School of Engineering using HTML/CSS/JavaScript and Bootstrap

Projects

AI Song Analysis

Sep 2020

- Programmed a song classifier in Python that uses machine learning to determine a song's genre through its lyrics
- Implemented term frequency-inverse document frequency and cosine similarity to return accurate classifications

Lunar Impact Mission

May 2020

- Created MATLAB program that calculated the orbits, trajectory, and impact velocity of the moon and a satellite that will impact the moon
- Implemented ODE solver, event functions, and script that animated trajectories

Non-Trivial Pursuit

Mar 2020

- Designed MATLAB scripts and algorithms to control an autonomous drone, with a view to both steering the drone to intercept a target object, as well as to escape a pursuer

Skills

- Python, Java, C, MATLAB, HTML/CSS, JavaScript, Git, Bootstrap, SolidWorks, AutoCAD, Adobe CC, 3D Printing, Laser Cutting, Printed Circuit Board (PCB) Design, Soldering, Microsoft Office, Fluency in Korean

Organizations

- Brown University Orchestra, Brown Entrepreneurship Program: Women's Empowerment Team, Full Stack at Brown

Honors

- Lemelson-MIT InvenTeam, \$10,000 Grant
- California State Assembly Scholastic Achievement Award
- Chevron/Project Lead the Way Engineering Design Competition, 4th Place
- American Fine Arts Romantic Music International Music Competition, 2nd Place