

SOPHIA CHEN

Computer Science | Applied Math | Design

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Education

2017-2021

Brown University, Rhode Island
Applied Math-Computer Science
GPA: 4.0

Relevant Coursework:

Accelerated Intro to CS

Discrete Structures & Probability

User Interface and Experience

Software Engineering

Machine Learning

Computer Systems

Statistical Inference

Applied Ordinary Diff Eq

Probabilistic Models

Deep Learning

Artificial Intelligence



Skills

Languages:

Java

Scala

C#

HTML/CSS

Ruby on Rails

Javascript

Python

Design Tools:

Adobe Photoshop

Adobe Illustrator

LaTeX

Computational Tools:

R

Matlab



Sample Projects

GenFit

Developed a virtual closet web app that improves closet visibility and generates personalized outfit suggestions.

Maps

Built interactive map GUI that features user pan/zoom, shortest route detection, and live traffic data updates.

Autocorrect

Built interactive GUI that generates autocorrected results based on user input.

Guizilla

Built interactive GUI browser in Java implementing client and server side with sockets, reflection, JavaFX events, and XML file parsing.

Search

Built interactive search engine in Java that takes user text queries and returns most relevant documents using the PageRank algorithm



Experience

Sep 2019 - Dec 2019

UI/UX Design | HTML/CSS | JS

Teaching Assistant - UI/UX

Brown University

Assisting with course development, holding weekly office hours, leading lab on UI/UX design topics.

May 2019 - Aug 2019

C# | JS | HTML/CSS | ML

Explore (SWE & PM) Intern

Microsoft - Bing Engineering

Worked full-stack to design, develop, and deploy new weather map answer in Bing with NLU and Experiences team.

Delivered back-end service to process user queries and integrate with front-end experience.

Improved existing querying model to feature greater coverage of map related queries and to ensure global market support.

Contributed to front-end development of weather map answer.

May 2018 - Aug 2018

Ruby/Rails | JS | HTML/CSS | InfluxDB

Software Engineering Intern

NCAR - EOL

Worked on production of CHORDS portal, a real-time data service platform for data acquisition, analysis, and distribution.

Designed REST API endpoints for JSON/GeoJSON data extraction.

Created visualization tools that aid in instrument monitoring and data processing.

Enhanced portal's performance for high volumes of data and users.

Aug 2015 - Aug 2017 **Engineering & Data Science Intern**

R | Matlab

NCAR - CISL

Designed statistical models and tools used to research relationships in the Earth sciences.

Optimized statistical analysis of geophysical data using high performance parallel computing.

Designed web apps for displaying atmospheric data.



Memberships and Honors

NCWIT Aspirations in Computing Award Recipient

Award given to young women who have demonstrated achievement and passion in computing and technology.

Brown STEAM - cyberSTEAM

Club that promotes the intersection of STEM and art. cyberSTEAM focuses on applications of computer science in data visualization, music, and engineering.