

Christine Zhao

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EDUCATION

RICE UNIVERSITY

BACHELOR IN COMPUTER SCIENCE
Expected May 2022 | Houston, TX

THOMAS JEFFERSON HS FOR SCIENCE AND TECHNOLOGY

ADVANCED DIPLOMA

Sep 2014 - Jun 2018 | Alexandria, VA
Cum. GPA: 4.455

COURSEWORK

COLLEGE

Computational Thinking
Business Communication
Statistics for Data Science
First-Year German

HIGH SCHOOL

Concrete Math
Multi-variable Calculus
Web Applications Development
Mobile/Web Applications Research
Artificial Intelligence 1/2
AP Computer Science A
AP BC Calculus

SKILLS

PROGRAMMING

Advanced:

Python • Javascript
HTML/CSS • Java

Intermediate:

C# • Unity • Express.js • \LaTeX

Socket.io • Bootstrap • JQuery • R

Familiar:

Visual Basic (VBA) • ArcPy/ArcGIS
Android • MySQL • Unix • C++

HONORS

- National Journalist of the Year
- National Merit Finalist
- AP Scholar with Distinction
- Winner at Technica Hackathon
- Second Place in MIT Beaverworks Summer Institute Final Competition

LINKS

Github:// [czhao028](#)
Devpost:// [czhao028](#)
LinkedIn:// [czhao028](#)
Facebook:// [czhao028](#)

EXPERIENCE

GIRLSTART | STEM CREW PROGRAM LEADER

Sep 2018 - Present | Houston, TX

- Run after-school STEM enrichment programs for 4th-5th grade girls in high-need communities.
- Plan, prepare, and execute biweekly 1-hour lesson plans at local elementary schools. Leads Girlstart at Heflin and Emmerson Elementary.
- Collaborate with co-lead and intern coordinator to gather and organize materials for programs of 30+ girls.

CAPITALONE BANK | DATA ANALYST INTERN

Jun 2018 - Aug 2018 | McLean, VA

- Improved CapitalOne's ability to spot causes of poor associate experience by introducing unsupervised comment analysis techniques. Presentation at People Analytics All-Hands meeting gained a 100% approval rating in post-meeting survey.
 - a Eliminated the need for quarterly manual classification of employee feedback, a previously 30 hr task. Automated techniques required just 15 min. to process 30,000+ comments.
 - b Implemented NLP techniques thru sklearn to enhance company's ability to sort comments into topic categories without introducing human bias
 - c Programmed a summarization tool using TextRank analysis. This tool allows HR to view top comments related to the primary causes of employee disengagement/dissatisfaction.

ASPIRING SCIENTISTS SUMMER INTERNSHIP PROGRAM | INTERN

Jun 2016 - Aug 2016 | George Mason University, Fairfax, VA

- Compiled an 18-page research paper and developed Flood Information Portal (FIP), a mobile application that alerts users of nearby floods and locations.
- Wrote Javascript scripts within the Cordova mobile app framework to automatically classify NOAA flood warnings/watches and push notifications to users about relevant safety tips and courses of action.
- Researched and implemented: a. the ogr2ogr command line tool, b. Visual Basic for Applications (VBA) script, and c. Python packages, such as openpyxl & ArcPy, to transfer real-time weather data into the app.
- Earned a Siemens Competition Semifinalist award for project & paper.

PROJECTS

MYVROW | Sep 2017 - May 2018

Developed a virtual reality infinite runner game in Unity to be paired with the rowing ergometer. Experimented with threading to generate random landscapes and C# script/Unity's Bluetooth plugin to read in real-time user speed into the game.

FOTO BOOTH | Dec 2017 - Jan 2018

Built a web application to allow personalized Facebook album downloads. Set up Express.js server to store user data into MySQL databases. Experimented with Browserify to implement Node.js packages on the client-side, particularly to work with asynchronous Facebook API requests which gathered album covers & pictures.

SUBURBIA | Nov 2017

Collaborated with three other high school students to develop a web application that finds the perfect neighborhood based on user preferences for schools, price, age group(s), etc. Won First Prize in the Fannie Mae Challenge at the 2017 Technica Hackathon at the University of Maryland.