Helena Shangguan

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EDUCATION

Smith College, Northampton, MA

Expected in May 2022

- Majors: Computer Science, Mathematics & Statistics
- Relevant Coursework: Intro to CS Through Programming, Programming with Data Structures, Intro to Data Sciences, Computer Graphics
- Cumulative GPA: 4.0/4.0

EXPERIENCES & PROJECTS

Summer Research Fellowship Program, Student Researcher, Smith College May – Aug, 2019

- Conducted independent research on offline handwritten Syriac text recognition system
- Implemented a deep-learning model in **python** with Numpy, CV2, and TensorFlow libraries
- Segmented pages of Syriac manuscripts into word-images in Matlab; Trained neural networks and improved recognition accuracy by 25% through data augmentation

SisterHacks Hackathon, Award Winner, Bryn Mawr College

Mar, 2019

- Created a digital version of a vintage board game "Wanted!" in **python**; Allowed two players to interact with the keyboard to perform speed-based tasks when cards are displayed, with the slower or wrongly reacted player penalized; Won **Outstanding Project Award**
- Participated in 3-D Printing Modeling Workshop and Web Development Workshop

Database Querying, Class Project, Smith College

May, 2019

• Examined gender disparity within the film industry; Used **SQL** to retrieve relevant data and did data wrangling work in **R**; Crafted a data-driven article, replete with hyperlinks, images, data tables, and graphics;

Interactive Fiction, Individual Project, Smith College

Feb, 2019

 Designed and developed in Java a choice-based interactive fiction about escaping a spooky mansion; Allowed players to type commands and search for items to open locked exits;
Created a time system, in which day and night narratives differ; Provided multiple endings

ACTIVITIES

Light Board Operator, MFA Thesis Dance Concert, Smith College	Feb, 2020
Secretary, Chinese Student Association, Smith College	Aug, 2019-present
Member, Smithies in CS, Smith College	Sep, 2018-present
Dancer, Smith K-pop dance crew, Smith College	Sep, 2018-present

HONORS

Bert Mendelson Prize from the Computer Science Department	May, 2020
Arthur Ellis Hamm Prize awarded on the basis of the best first-year student's record	Aug, 2019
Dean's list at Smith College	2018-2019

SKILLS

Technical Skills: Java(2.5 years), Python(1 year), R, SQL, Matlab, JavaScript, HTML

Languages: English, Chinese, Japanese