

# Julia Bristow

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## EDUCATION

### The George Washington University

Bachelor of Science in Computer Science  
Aug. 2017–May 2021  
GPA 3.9

## TECHNICAL SKILLS

**Languages:** Java, Python, C, HTML, CSS,  
**Operating Systems:** Windows, Linux (Ubuntu), MAC OS  
**Tools:** Git, MATLAB, Lego MindStorms, LeJos

## COURSEWORK

**Completed:** Software Development, Data Structures & Algorithms, Software Engineering, Computer Architecture, Algorithms

**Spring 2019:** Systems Programming, Databases, Continuous Algorithms

## WORK EXPERIENCE

**GWU School of Engineering and Applied Science**  
**Computing Facilities, Lab Tech,** Washington, DC  
Current

- Resolve technical issues within the engineering buildings
- Manage and maintain laboratories and equipment for student and faculty use

**Mathnasium, Instructor,** Chesterfield, VA  
August 2016 - August 2017

- Taught students math at all levels, typically in the elementary and middle school grades
- Assisted with and provided tutoring for school work and homework
- Worked on communicating ideas simply and effectively

## TECHNICAL PROJECTS

### REU at University of North Texas

May–July 2018

- Worked on a research project using machine learning to make predictions on encrypted data
- Used Python to help write and test algorithms with different activation functions and find the one with the highest accuracy
- Used C++ to review and analyze Homomorphic Encryption libraries

### Server-Client Project

April 2018

- Created a music playing program similar to a simplified version of Spotify using Java's Swing API for GUIs
- Sent data over a network so that other computers could see what someone was listening to

### Maze-Solving Robot (team of 4)

August–Nov. 2017

- Designed a robot from LEGO® MINDSTORMS® parts using infrared, color, and touch sensors
- Implemented an algorithm in Java for the robot to navigate a maze from any starting point, find the end, then go back without making any wrong turns

## LEADERSHIP

Learning Assistant for Introduction to Computer Science (CS 1010), Fall 2018

Communications Chair for the GWU chapter of ACM, 2018-19