

# WILLIAM MUELLER

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5320 Neville Court, Alexandria, VA 22310

## Education

UNIVERSITY OF VIRGINIA, CHARLOTTESVILLE, VA

Expected Graduation: May 2024

**B.A. Computer Science:**

Cumulative GPA: 3.876/4.00

**Relevant Coursework:**

Program & Data Representation, Discrete Mathematics, Software Dev Methods

## Skills

### Programming Languages

Java  
Python  
C++

### Web Development

JavaScript  
HTML  
CSS

### Other

Git  
Github  
Blender  
Firebase

## Work Experience

**DECKHAND** – Potomac Riverboat Company, Alexandria, VA

May 2021 - Aug 2021

- Secured boats to docks with lines, and cast off lines to enable departure
- Welcomed guests to boats, answered questions, and served food and beverages

**CASHIER, FOOD PREP** – Highland Park Hurricane Hut, Alexandria, VA

May 2018 - Aug 2018, May 2019 - Aug 2019

- Received, prepared, and served orders for customers
- Operated a cash register, fryer, or grill

## Extracurriculars

**V.P. OF TECHNOLOGY, TEAM MEMBER** – HooHacks, University of Virginia's Annual Hackathon

Sept 2020 - present

- Controlling, updating, and managing multiple HooHacks websites
- Created run of show and managed prizes for Spring 2021 hackathon
- Handling the newsletter and authored newsletter article about embracing limitations in computer science projects

**CHAIR** – Bishop Ireton's Honor Council

Aug 2019 – May 2020

- Oversaw hearings for reported honor code violations

**DIRECTOR, ASSISTANT DIRECTOR, TEAM MEMBER** – HackBI, Bishop Ireton's Annual Hackathon

Nov 2017 – Feb 2020

- Supervised \$10,000 budget and created run of show
- Led team and adult volunteers throughout 24-hour event
- Organized and led weekly team meetings
- Headed sign-in and registration
- Contacted and corresponded with school administration and event sponsors
- Judged final projects, approved prizes, and filled out purchase orders

**TEAM MEMBER** – Bishop Ireton's CyberPatriot Team

Nov 2017 – Feb 2020

- Won 1<sup>st</sup> place in the Gold Tier division in the 2018-2019 season

## Relevant Projects

### A\* SEARCH ALGORITHM VISUALIZATION

- Researched the A\* search algorithm and replicated it in Java
- Implemented a GUI for visualization
- Studied Java's SwingWorker class to utilize background threads

### CHESS VISUALIZATION TOOL

- Designed and hosted a website which can be deployed as a tool to improve a chess player's visual memory
- Integrated JavaScript libraries such as chessboardjs and Bootstrap
- Implemented a Firebase backend database which saves user data