

Amelia Cook

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EDUCATION

Tufts University

B.S. Computer Science
Expected Grad. May 2024
Cum. GPA: 3.94
Dean's List Honoree

The Potomac School

Grad. June 2020

SKILLS

Languages:

C/C++, System Verilog, Java, Bash,
Groovy, JavaScript, Python

Other:

Git, Make, Valgrind, Scrum, Agile

COURSEWORK

Completed:

Machine Structure and
Assembly-Language Programming
Programming Languages
Algorithms
Data Structures

Fall 2023:

Digital Design Verification
Artificial Intelligence
Software Engineering

ACTIVITIES

Clubs and Hobbies:

Crochet, Baking, Travel
Women in Computer Science

Baha'i Activities:

Junior Youth animator
Ruhi Institute tutor, participant
Outreach

INTERNSHIP EXPERIENCE

GD Mission Systems – Engineering Intern

Jun 2023 - Aug 2023

- Built and implemented custom verification tool for Atlassian using java, bash to automate tasking
- Translated tool to groovy to integrate with Jira workflow, investigated bugs and iterated tool versions

MITRE – Software Engineering Intern

May 2022 – Aug 2022

- Utilized and mastered over 10 new technologies and tools in a versatile project-based environment
- Customize and deploy open-source app, configure Kubernetes deployment using Helm charts, Docker, and kind

LEADERSHIP EXPERIENCE

Tufts Computer Science Data Structures – Teaching Fellow

Sep 2021 - Present

- Debug errors in C++, guide program architecture, answer questions on data structures and algorithms
- Coordinate team of 40 TAs, write assignment rubrics and oversee grading decisions, present weekly labs

Tufts Emerging Scholars Program – Peer Leader

Oct 2021 – Present

- Promote collaborative and inclusive environment, guide discussions and activities, coordinate topics and logistics
- Prepare weekly presentations to introduce advanced topics such as AI/ML, cybersecurity, and natural language processing

Tufts Women in Technology Conference – Conference Chair

May 2022 - Oct 2022

- Oversee and organize four committees to plan a conference for almost 400 people, including over 20 sponsors
- Coordinate with sponsors and guest speakers to host workshops, talks, and panels, and to create opportunities

PROJECTS

Image Processing in C

Implemented lossy compression and decompression algorithm. Optimized image transformations for cache hits.

Type Checker

Modified monomorphic type checker to accommodate new type, wrote polymorphic type checker from scratch.