

Audrey Q. Yang

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<https://github.com/vagorsol>

Education

Bryn Mawr College, Bryn Mawr, PA
Major: Computer Science, *Intended Minor*: Mathematics

B.S. Candidate, 2020-2024
GPA: 3.59

Relevant Coursework

- Computer Science, Data Structures, Principles of Programming Languages, Systems Programming, Analysis of Algorithms, Computational Linguistics, Software Engineering (Ongoing)
- Multivariable Calculus, Real Analysis, Linear Algebra, Differential Equations, Discrete Mathematics, Applied Mathematics: (Ongoing)

Technical Skills

- **Programming Languages**: Java, GO, Kotlin, Python, C/C++/C#, HTML, CSS, Javascript
- **Databases**: MongoDB, Restful API (Node Express)
- **Software Development Tools**: Visual Studio Code, Android Studio, Vi/Vim, Git
- **Software Application Tools**: Autodesk Inventor, Fusion 360

Computer Science and Math Projects

- Recursive implementation of a gaming program that solves Sudoku puzzles
- Implementation of efficient search, sorting, and parsing functions for data structures
- Programming of systems functions that read and write codes in portable pixmap format (PPM)
- Design and implementation of a scheduling algorithm for school registration that maxi student preferences subject to room and timeslot constraints
 - Modeling of the pollution levels of connected lakes with sources (dumping) and sinks (cleanup) at different rates and calculation of the pollution dynamics for transient and steady-state analysis
 - Generalization of Fibonacci numbers and computing of the sequences

Relevant Experiences

FIRST Tech Challenge Competitive Robotics

2015 - 2019

- Implemented robot functions and autonomous strategies; programmed robot coordinated movements to “dance” for outreach activities
- Managed and contributed to documenting weekly team activities and progress
- Designed and operated 3D printers to make custom parts, built connectors, wired motors and sensors, and framed robots

Organization Activities

Major Representative, **Computer Science Department, Bryn Mawr**

2022-Present

- Budgeted and organized departmental events such as: major information sessions, fireside chats and hangouts

Volunteer, **Theater Technician, Bryn Mawr Theater Program**

2021-Present

- Used power tools to help construct stage sets
- Set up, took down, and adjusted set pieces and lighting for various productions

Participant, **Girls Who Code, Bryn Mawr**

2021-Present

- Collaborated with fellow members in various coding exercises and online competitions
- Engaged in meetings aimed at expanding and introducing new technical skills