

# Daryl Bagley | PhD Student in Computer Science

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## Education

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### University of Rochester

Fall 2018 - Spring 2023 (expected)

#### PhD in Computer Science

Provost's Fellowship | NSF Data-Enabled Science and Engineering Research Trainee

Focus: Artificial Intelligence

### Harding University

Fall 2014 - Spring 2018

#### BS in Computer Science and Mathematics

Minor: Bible and Ministry

Honors College Graduate with Distinction | Cum Laude | McNair Scholar | 3.70 GPA

#### Relevant Courses:

- Data Structures
- Applied Algorithms (Honors)
- Artificial Intelligence
- Linear Algebra
- Object Oriented Programming
- Software Engineering

## Experience

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### ArcBest Technologies [Fort Smith, AR]

Summer 2017

#### Programmer/Analyst Intern

- Helped to build an application from scratch, using **C#**, **SQL**, and **Subversion**, that is currently in use by the company
- Collaborated with 2 other interns under the supervision of a senior developer using the **Scrum** framework
- **Presented** the completed project to upper management to inform them of the project's purpose and functionality

## Projects & Papers

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### Solving a Scheduling Problem using a Genetic Algorithm

Spring 2018

#### Paper and Presentation

- Independent researched-focused project for my honors capstone and my computer science seminar at Harding University
- Solved a common problem with an original approach by implementing a genetic algorithm, using **C++**, to create an optimal 8-semester plan from the given courses
- **Presented** at the Alpha Chi National Convention and received the Floyd Tesmer/Strayer University Prize in Computer Science & Engineering

### Elemental Encounter

Spring 2018

#### Software Development Project

- Collaborated with 4 other seniors, using **C#**, **Unity**, **Github**, and **Scrum**, to implement the game Breakthrough for our capstone project
- Led the AI component, developed in **C++**, that was awarded 2nd place of 7 teams in the AI competition

### Combining Content Information with an Item-Based Collaborative Filter

Summer 2016

#### Paper and Presentation

- Designed and enacted an independent research project under the advisory of Dr. Steve Baber as part of the McNair Scholars program
- Implemented 4 recommender algorithms in **C++** to determine which algorithm was the most accurate for the domain
- **Published** in Aletheia, the Alpha Chi Journal of Undergraduate Scholarship
- **Presented** at Harding University (Summer 2016), the Consortium for Computing Sciences in Colleges Mid-South Conference (Spring 2017), and the University of Maryland National Conference for McNair Scholars and Undergraduate Research (Spring 2018)

### An Explanation and Evaluation of Various Theories on the Gender Difference in Mathematics

Spring 2014

#### Paper and Presentation

- Researched, explained, and evaluated the current literature regarding gender gap in mathematics
- The paper received the Boe Award from the Great Plains Honors Council and was **presented** at the Great Plains Honors Conference (Spring 2015)

## Skills

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### Technologies

- C++ (Proficient)
- C# (Proficient)
- JavaScript [Node] (Proficient)
- SQL (Familiar)
- Haskell (Basic)
- Python (Basic)
- Windows (Proficient)
- Linux (Familiar)
- Github (Basic)