

# Madisyn McFarlane

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314-602-2307

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## Academic History

*Bachelor of Science in Computer Science*

University of Kentucky, Lexington, KY

Senior

Projected Graduation: May 2020

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## Employment History

*UK Tutoring Services- Calculus I and II Tutoring*, Lexington, KY

Fall 2017-Spring 2019

Provided private tutoring to Calculus I and II students to invoke a better understanding of course material and prepare for upcoming exams.

*UK Tutoring Services- Computer Science Tutoring*, Lexington, KY

Spring 2018-Spring 2019

Provided private tutoring to Program Design, Intro to Software Engineering, and Discrete Math students to invoke a better understanding of course material, debug and finalize projects, and prepare for upcoming exams.

*Tutor Doctor of the Bluegrass- Math and Science Tutoring*, Lexington, KY

Spring 2019

Worked privately with middle school and high school students weekly or biweekly to set a foundation for learning and time management, as well as teaching course material and aiding with homework questions and practice problems.

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## Skills

Thorough understanding of the fundamentals of software engineering. Proficient in several programming languages including Java, JavaScript, C, C++, C#, Python, HTML/CSS, and SQL, and familiar with several other languages including Node and Assembly. Skilled in Microsoft Office, including Word and Excel. Excellent written and oral communication skills, quick learning, ability to follow, comprehend, and interpret instructions. Solid background in engineering, mathematics, analysis, and problem-solving fundamentals.

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## Honors and Awards

Graduated High School Summa Cum Laude, for a GPA above 4.0

University of Kentucky Presidential Scholarship (full out of state tuition), based on academic excellence

University of Kentucky College of Engineering Scholarship (\$3000/year), based on ACT score

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## **Involvement and Projects**

*Society of Women Engineers, Member:* A national coalition of collegiate engineering majors and professors, as well as engineers in industry, dedicated to diversifying the engineering fields.

*Association for Computing Machinery- Women's Chapter, Member:* An association that supports and advocates for the involvement of women in the computing field.

*Coding Club, Member:* Coded apps to aid everyday operation of other organizations of Rockwood Summit High School.

*Compiler Project:* Used C++ to write and implement a compiler from scratch which took file input and compiled the program into an executable.

*Senior Design Project, Fall Semester:* Used JavaScript to develop a web-based program in which professors from the University of Kentucky Computer Science department can enter anonymous student scores in order to evaluate their success in teaching student learning outcomes.