

Sarah Johanknecht

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EDUCATION

Michigan State University, East Lansing, MI

Class of 2020, Honors College
Major in Computer Science
Minor in Cognitive Science, Cognate in Business
GPA: 3.79

Seneca Valley High School, Harmony, PA

Class of 2016
GPA: 5.10 (weighted), 3.95 (unweighted)
Class Rank: 12/578

RELEVANT COURSEWORK

COMPLETED

- 7 transfer credits from the University of Pittsburgh Computer Science
- CSE 232- Intro to Programming II in C++
- CSE 260- Discrete Structures

PLANNED

- CSE 335-Software Design (Fall 2017)
- CSE 331-Algorithms and Data Structures (Fall 2017)
- CSE 320- Computer Architecture (Spring 2018)
- CSE 410- Operating Systems (Spring 2018)

SKILLS

- C++, C#, Java, Python, .NET, WPF, XAML, Git, GitHub, Visual Studio

RELEVANT EXPERIENCE

Software Engineering Intern

May 2017-August 2017

TechSmith Corporation: (<https://www.techsmith.com/>)

Okemos, MI

- Refactored a video testing harness for testing video recording in TechSmith products SnagIt and Camtasia using C++ and implemented an algorithm for testing recordings for audio/video sync issues.
- Developed "Share" outputs for SnagIt to various outside applications using C# and .NET while working intensively with Microsoft and other APIs, as well as WPF and XAML for User Interface design.
- Utilized Agile development ideology and managed GitHub and source control daily for multiple projects.

Professorial Assistant: Digital Evolution Researcher

August 2016 - Present

Michigan State University College of Engineering: (<http://devolab.msu.edu/>)

East Lansing, MI

- Research Assistant to Dr. Charles Ofria and PhD student Emily Dolson in Michigan State's BEACON Research Lab.
- Simulated various evolutionary environments using C++ and Empirical software, used Python to write scripts for data analysis, and worked intensely with MSU's high performance computer to run experiments.

SpartaHack: SpartanSchedulr

January 2017

Michigan State University Hackathon Project

East Lansing, MI

- Collaborated with team members to create a demo of "SpartanSchedulr" web application using Django, which optimizes a Michigan State Computer Science student's schedule, back-end programming in Python.

HONORS & ACTIVITIES

- National Center for Women in Information Technology (NCWIT) Affiliate Award Winner, 2015 & 2016
- Michigan State's Women in Computing Club, 2016 - Present
 - Leadership Position: Outreach Coordinator
- Michigan State Honors Students Actively Recruiting (H-STAR), 2016 - Present
 - Leadership Position: Student Leadership Team
- Michigan State University Women in Engineering Connect Mentor, 2017 - Present
- Michigan State University Outdoors Club Participant, 2017 - Present
- Cranberry Township Relay for Life Team Co-Captain, 2015 - Present