KALEB SWARTZ

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EDUCATION

Miami University (College of Engineering and Computing)   *Oxford, OH*
Bachelor of Science in Computer Science
- Expected Graduation: May 2019
- GPA: 3.35/4.0
- Dean's List Member Fall 2015 and Spring 2017

SKILLS

Proficient   **Knowledge of**
- Java, Python, C++, Git, command line   C#, C, HTML/CSS, SQL

EXPERIENCE

Software Engineering Intern   *June 2018 – August 2018*
Brookhaven National Laboratory
- Worked in the National Synchrotron Light Source II facility to integrate X-ray simulation software Sirepo with Python data collection library Bluesky
- Implementation resulted in the ability for a beamline experiment to be fully simulated over time with tunable optic parameters
- Learned various Python data science libraries (matplotlib, numpy, pandas)

Undergraduate Research Assistant   *May 2018 – August 2018*
Miami University
- Worked remotely with a professor to study the correlation between a pre-college analytical test and programming proficiency
- Used Python and Excel for data collection and analysis, assisted in writing the research paper

Teaching Assistant   *August 2017 - Present*
Miami University (Programming for Engineers and Scientists / Intro to Software Engineering)
- Help students with semester-long Java project, hold weekly office hours and review sessions
- Create answer keys for programming assignments (C++) as well as grade student submissions

PROJECTS

NFL-statistic-book
- Text-based Python application that pulls data from the MySportsFeed API to get roster, schedule, and player information on any NFL team specified by the user

Voting Project
- Java application that parses data from given CSV files containing voting records from the 2016 election and displays such data in a Java Swing GUI based on selected counties in Ohio

Stahr Wars
- C# Client/Server game that allows for multiple players to connect to the same universe, such players battle against one another to be the last survivor – game includes black holes, planets, stars etc.