

# Trey Sullivent

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## Education

**B.S. Computer Science** GPA: 3.72/4.0

*Minor: Mathematics*

University of Oklahoma

Norman, OK / 2020

## Awards and Acknowledgements

Dean's Honor Roll (7 semesters) (2017 – 2020)

National Merit Scholar (2016)

## Internship Experience

**American Fidelity Assurance** – Robotic Process Automation Intern May 2019 – August 2019

- Created software robots to assist a company-wide RPA initiative using primarily UIPath and VBA.
- Automated business tasks from data entry to sorting digital letters, measurably increasing productivity.
- Produced complete documentation, and provided training for the upkeep of my team's projects.

## Projects and Applications

**Software Engineering Capstone Team Lead** with Power Costs Inc. August 2019 – May 2020

- Completed development on webapp to hold and display install log data in a dynamic and pleasing way.
- Hosted on an AWS server using JavaScript, Node.js, jQuery, Bootstrap, MySQL, Apache 2, and Java.
- Presented regular demos and status updates, and created installation tools to ensure software longevity.

**Sooner Competitive Robotics Team** – IGVC August 2018 – March 2020

- Developed a robotic architecture to complete navigation tasks using ROS nodes and a custom chassis.
- Implemented object and lane detection, localization and mapping, D\* in C++ and teleoperation.
- Designed a distributed system with Linux, Arduino, and Raspberry Pi components intercommunicating.

**Course Experience** – University of Oklahoma

- Databases – Relational databases, ER diagrams, storage structures, and efficient query design.
- Operating Systems – System calls, memory allocation, filesystem design, and C programming.
- Machine Learning – Feature importance, kernel manipulation, random forests, and regressions.
- Statistics/Big Data – Data processing, bootstrapping, and regression analysis with large datasets.
- Visual Programming – 2D and 3D graphics, animation, and principles of modern graphic design.

### Languages

Java, Python, C, C++, C#, R,  
HTML/CSS, SQL, JavaScript,  
VB(A, S, .NET), PHP

### Software

Linux OS (Arch, Ubuntu),  
Windows, OSX, Apache,  
Azure, UIPath, Gazebo

### Libraries

Java Swing, OpenGL, ROS,  
Scikit-Learn, Pandas, Bootstrap,  
Node.js, jQuery

## Leadership

**University of Oklahoma Hillel**

Board of Directors

July 2018 – May 2020

- Represented the undergraduate community and made high level decisions about finances and mission.

Student Board

Nov 2017 – August 2019

**Alpha Epsilon Pi Fraternity**

President

May 2018 – November 2019

- Learned and applied valuable leadership lessons, successfully handling complex issues and conflicts.
- Planned and provided oversight for all chapter functions, including record high philanthropy earnings.
- Guaranteed structure and organization in all aspects of the fraternity, improving overall performance.

Civic Engagement Chair

November 2017 – May 2018