**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 InternMay 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