

Bailey A. Tincher
2905 Northwind Drive, New Lenox, Illinois 60451
Email: tincher2@illinois.edu | Phone: (815) 530-7378
baileytincher.github.io

Education:	University of Illinois - 3.81 GPA <ul style="list-style-type: none">• Bachelor of Science in Physics• Pursuing a dual major with Computer Science• 69 Credit Hours / Dean's List	Aug. 2017 - Present Urbana-Champaign, IL
	Illinois Tool Works <i>Engineering Intern - Full Time</i> <ul style="list-style-type: none">• Applying 80/20 core principles to improve business processes• Pitched and designed a custom machine to automate corrugated box folding that will result in over \$5,000 and 350 labor-hour savings annually• Leading a production in-lining effort to reduce 1,000,000 CSM's annually• Constructing a Sharepoint site to automate interdepartmental workflows	May 2018 - Present Beecher, IL
	University of Illinois - Department of Computer Science <i>CS 125 Course Assistant - Volunteer</i> <ul style="list-style-type: none">• Focusing on enabling students to begin developing problem solving strategies through weekly office hour and course forum interactions• Initiated and currently leading a project to expand office hours accessibility across campus throughout residence halls	Jan. 2018 - Present Urbana-Champaign, IL
Work Experience:	Miller Electric Mfg. - A Subsidiary of Illinois Tool Works <i>Design Engineering Intern - Full Time</i> <ul style="list-style-type: none">• Supported a team of 6 engineers and product managers with minimal oversight• Coordinated and carried out 16 interdepartmental engineering changes• Conducted extensive research on a cutting-edge welding gun innovation that is now the key feature of the company's next generation product line• Lab experience with sensitive equipment including precision scales, load cells, thermocouples, hygrometers, standard gages, and high potentiometers	May 2017 - Aug. 2017 Beecher, IL
	Association of Data Science and Analytics <i>Advanced Workshops Committee Member</i> <ul style="list-style-type: none">• Apart of a committee developing a brand new introductory data science program in which we teach advanced Python techniques, the fundamentals of common algorithms, and guide our students through mini projects to reinforce concepts• Developed a news web scraping package that integrates with Amazon Alexa to report real-time headlines from popular news sources as part of a team project	Aug. 2017 - Present April 2018 - Present Urbana-Champaign, IL
	Boy Scouts of America <i>Eagle Scout</i> <ul style="list-style-type: none">• Proposed, developed, and organized an unprecedented electronics sustainability event leading a team of fellow scouts, school administrators, and business leaders• Initiated a partnership with Morning Star Mission to collect and repurpose cell phones as emergency call devices for poverous women and children	Aug. 2005 - June 2017 June 2017 New Lenox, IL
Activities/Honors:	Air Force Junior ROTC <i>Cyber Officer</i> <ul style="list-style-type: none">• Developed a comprehensive corps events tracking database management interface through Java that reduced data input labor requirements by 50%• Implemented a strong emphasis on technology education as the unit's team captain leading to platinum quarter finals placement in the national Air Force cyber security competition Cyber Patriot	Aug. 2013 - May 2017 Aug. 2015 - May 2017 New Lenox, IL
	Other Notable Activities/Honors <i>Illinois State Scholar, AP Scholar with Distinction, ITW Foundation Scholar</i>	May 2017
	<i>JJC Invitational 2nd Place Oral Presentation on Finite State Machines</i>	Mar. 2017
Software Experience:	<i>United States Air Force Technology Education Student Award Recipient</i>	May 2016
	SolidWorks (Advanced), MS Office/Sharepoint (Advanced), Java (Intermediate), Python (Intermediate), Flask Microframework (Basic), Amazon RDS (Basic), Linux (Basic), P5.js (Basic)	