

**Bailey A. Tincher**  
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baileytincher.github.io

<b>Education:</b>	<b>University of Illinois - 3.81 GPA</b> <ul style="list-style-type: none"><li>• Bachelor of Science in Physics</li><li>• Pursuing a dual major with Computer Science</li><li>• 69 Credit Hours / Dean's List</li></ul>	Aug. 2017 - Present Urbana-Champaign, IL
	<b>Illinois Tool Works</b> <i>Engineering Intern</i> <ul style="list-style-type: none"><li>• Applying 80/20 core principles to improve business processes</li><li>• Pitched and designed a custom machine to automate corrugated box folding that will result in over \$5,000 and 350 labor-hour savings annually</li><li>• Leading a production in-lining effort resulting in a 1,000,000 CSM reduction/year</li><li>• Constructing a Sharepoint site to automate interdepartmental workflows</li></ul>	May 2018 - Present Beecher, IL
	<b>University of Illinois - Department of Computer Science</b> <i>CS 125 Course Assistant</i> <ul style="list-style-type: none"><li>• Focusing on enabling students to begin developing problem solving strategies through weekly office hours and course forum interactions</li><li>• Initiated and currently leading a project to expand office hours accessibility across campus throughout residence halls</li></ul>	Jan. 2018 - Present Urbana-Champaign, IL
<b>Work Experience:</b>	<b>Miller Electric Mfg. - A Subsidiary of Illinois Tool Works</b> <i>Design Engineering Intern</i> <ul style="list-style-type: none"><li>• Supported a team of 6 engineers and product managers with minimal oversight</li><li>• Coordinated and carried out 16 interdepartmental engineering changes</li><li>• Conducted extensive research on a cutting-edge improvement that is now the key feature of the company's next generation product line</li><li>• Lab experience with sensitive equipment including precision scales, load cells, thermocouples, hygrometers, standard gages, and high potentiometers</li></ul>	May 2017 - Aug. 2017 Beecher, IL
	<b>Association of Data Science and Analytics</b> <i>Advanced Workshops Committee Member</i> <ul style="list-style-type: none"><li>• Apart of a committee developing a brand new introductory data science program in which we teach advanced Python, the fundamentals of common algorithms, and guide the students through mini projects that reinforce these concepts</li><li>• 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</li></ul>	Aug. 2017 - Present April 2018 - Present Urbana-Champaign, IL
	<b>Boy Scouts of America</b> <i>Eagle Scout</i> <ul style="list-style-type: none"><li>• Proposed, developed, and organized an unprecedented electronics sustainability event leading a team of fellow scouts, school administrators, and business leaders</li><li>• Initiated a partnership with Morning Star Mission to collect and repurpose cell phones as emergency call devices for poverous women and children</li></ul>	Aug. 2005 - June 2017 June 2017 New Lenox, IL
<b>Activities/Honors:</b>	<b>Air Force Junior ROTC</b> <i>Cyber Officer</i> <ul style="list-style-type: none"><li>• Developed a comprehensive corps events tracking database management interface through Java that implemented the Apache POI API</li><li>• 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</li></ul>	Aug. 2013 - May 2017 Aug. 2015 - May 2017 New Lenox, IL
	<b>Other Notable Activities/Honors</b> <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
<b>Software Experience:</b>	<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)	