

Bailey A. Tinchler

2905 Northwind Drive, New Lenox, Illinois 60451
Email: tinchler2@illinois.edu | Phone: (815) 530-7378
baileytinchler.github.io

Education:

University of Illinois - 3.81 GPA

- Bachelor of Science in Physics
- Pursuing a dual major with Computer Science
- 69 Credit Hours / Dean's List

Aug. 2017 - Present
Urbana-Champaign, IL

Work Experience:

Illinois Tool Works

Engineering Intern - Full Time

- Applying 80/20 core principles to improve business processes
- Conducting a data analysis project utilizing python to evaluate the efficiency of the company's current parts picking process consisting of 500,000 picks annually across 185 bin locations
- Pitched and designed a custom machine to automate corrugated box folding that will result in over \$5,000 and 350 labor-hour savings annually
- Constructing a Sharepoint site to automate interdepartmental workflows

May 2018 - Present
Beecher, IL

University of Illinois - Department of Computer Science

CS 125 Course Assistant - Volunteer

- 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

Miller Electric Mfg. - A Subsidiary of Illinois Tool Works

Design Engineering Intern - Full Time

- 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

Activities/Honors:

Association of Data Science and Analytics

Advanced Workshops Committee Member

- 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

Eagle Scout

- 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

Air Force Junior ROTC

Cyber Officer

- 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

Illinois State Scholar, AP Scholar with Distinction, ITW Foundation Scholar

JJC Invitational 2nd Place Oral Presentation on Finite State Machines

United States Air Force Technology Education Student Award Recipient

May 2017
Mar. 2017
May 2016

Software Experience:

SolidWorks (Advanced), MS Office/Sharepoint (Advanced), Java (Intermediate), Python (Intermediate), Flask Microframework (Basic), Amazon RDS (Basic), Linux (Basic), P5.js (Basic)