

James Tipton

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ABOUT

A dynamic and highly motivated individual currently studying at the University of Missouri. Confident, creative, capable, and continuously learning. Adaptable and a quick study, very detail-oriented, with a passion and drive for results. Prepared to take on a broad range of responsibilities and use my analytical and collaborative skills, and seeking a position that will utilize these qualities and skills that translate to real world challenges and opportunities.

TECHNICAL ABILITIES

- Very proficient in Python, C, JavaScript, TypeScript, Angular/Ionic, React.JS, React Native, HTML/CSS
- Skilled in C#, Java, Swift, MySQL
- Experience with AWS, Azure, Google Cloud

EDUCATION

University of Missouri - Columbia

2018 – 2023

Bachelor of Science in Computer Science, *magna cum laude*

Bachelor of Science in Psychology, *magna cum laude*

Minor in Mathematics, Certificate in Neuroscience, Certificate in Multicultural Studies

EMPLOYMENT AND EXPERIENCE

- First Place MLH Hackathon Winner ***Nov. 2022***
Received first place in the University of Missouri Major League Hacking event by developing a React Native Application that tracks user's CO₂ emissions from driving. By utilizing Google Maps API, I was able to develop the app's frontend mapping and location features as well as the statistics UI which displayed relevant information about the trip and emissions, based on calculations we developed as a team.
- University of Missouri – Honors Computer Science Researcher and Fellow ***Nov. 2021 to Jul. 2022***
Worked in conjunction with the U.S. Geological Survey to develop an Angular app that takes images of water, employs a machine learning model to detect trace amounts of oil in the water, and stores the information in a database. All without specialized lab equipment.
- Country Day School – Senior Counselor ***Summer 2019 and 2020***
Organized and led large groups of students ages 6-13, trained other camp counselors and created programming. Liaised with parents and staff and resolved disputes, while promoting an enjoyable and safe environment for the students.
- University of Missouri Chemistry Department Glass Group – Lab Assistant ***Fall 2019 to Spring 2020***
Conducted independent projects, synthesized and purified organic compounds used for visualization of neurotransmitters, and used advanced techniques including NMR, IR, and UV spectroscopy to verify and analyze these compounds.

VOLUNTEER EXPERIENCES

- HelpLanka - Sri Lanka - Summer 2017: Organized and raised funds for impoverished, orphaned students. Worked with rural communities for relief and education of students grades 1-11, as well as worked with school for the blind and deaf.
- ENLACE - El Salvador - March 2017: Worked together with Salvadoran volunteers to build compost latrines in rural areas. Led effort to raise funds for supplies beforehand.