

# TYLER HARSELL

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## EDUCATION

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**Bachelor of Science Computer Science**, University of Missouri 3.7 GPA  
**Computer Science**, St. Charles Community College

Expected May 2024  
2020

## TECHNICAL SKILLS

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**Languages** C, Python, Java, Java Script, SQL, HTML/CSS  
**Technologies** React, Vue, Node.js, Express, MySQL, PostgreSQL, Spring  
**Developer Tools** Git, GitHub, Postman, Jira, Docker

## EXPERIENCE

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**Junior Engineer** February 2023 - Present  
Center for Geospatial Intelligence *Columbia, MO*

- Maintaining and developing new features on internal GIS web apps utilizing Vue.js, Node.js, and PostgreSQL to curate new information used for geospatial intelligence research

**Data Engineer** August 2022 - January 2023  
World Agricultural Economic and Environmental Services *Columbia, MO*

- Utilizing R, Python, and other tools to automate formerly manual processes in the agricultural and economic forecasting for companies such as Bayer
- Created a new program which led to 1200% faster creation of aggregate data.
- Developed a program that collected, organized, and reported data using Python for the economic analysis of agricultural data in order to make global forecasts.

**Software Engineering Intern** May 2022 - July 2022  
Enterprise Holdings *St. Louis, MO*

- Developed new features and business tools for the Enterprise CarShare team primarily using JavaScript and React in the frontend and Spring Boot, Java, and PostgreSQL in the backend.
- Developed and connected to a new API to gather information about cars to monitor their essential information such as fuel level, immobilizer status, and location. This data was displayed onto a React app.
- Created a tool that used the Twitter API to collect tweets and analyze their sentiment and then visualized that sentiment data using natural language processing by plotting it onto a map of the US

## PROJECTS

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**A \* Pathfinding Visualization.** Built a GUI using Pygames and implemented the A \* Pathfinding algorithm to select two points and draw the shortest distance between those points

## EXTRA-CURRICULAR ACTIVITIES

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**Vice President** December 2022 - Present  
Missouri Computing Association

- Supervise the administrative functions of the student organization from facilitating between students and faculty to developing a club budget in excess of \$80,000.

**Executive Committee Member** August 2021 - November 2022  
Missouri Computing Association

- Member of the technology team that created the website to handle all data and verify participant information as well as organized the logistics and finances of the three day event.