Blake Underwood
Data Analyst
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EXPERIENCE

Institute for Design Research and Outreach   *Aug 2024 - Present*
Data Analyst

- Conducted Iowa housing research for state legislators funded by The Iowa Economic Development Authority.
- Investigated the impact of housing-related zoning regulations on the cost of owning a home.

Iowa State University - Data Science for the Public Good   *May 2024 – Aug 2024*
Data Science Intern

- Assisted in building a zoning guide of Iowa encompassing 330 cities zoning information.

Iowa State Tutoring   *August 2022 - Present*
Data Science Tutor

- Communicated fundamental topics in Data Science, Computer Science, and Statistics.

DoorDash   *May 2020 - July 2023*
Delivery Driver – Over 3,000 deliveries

Arriaga Landscaping   *April 2019 - October 2019*
Lawn Mowing Specialist

PROJECTS

Iowa Zoning Guide Map   *May 2024 - Present*

- Developed an interactive map displaying housing-related zoning regulations for 330 Iowa cities with a team.
- Collected and analyzed data on zoning law's relationship with housing in these cities.
- Provided insights into zoning's effect on housing affordability.

Housing Market Report   *May 2024 - Present*

- Assessed housing affordability trends and the current state of the Iowa housing market.
- Evaluated factors like employment, commuting patterns, property taxes, and crime rates affecting housing affordability.
- Analyzed the supply and demand of housing, focusing on new dwelling unit permits and population changes in Iowa cities.
- Conducted a rent analysis comparing affordability relative to income in Iowa's urban, suburban, and rural areas.

Community Analysis Capstone   *January 2024 – May 2024*

- Conducted a socioeconomic analysis using data from the Bureau of Economic Analysis to visualize job trends in Iowa.
- Studied institutions across Iowa using data from the State Historical Society of Iowa by creating interactive Tableau dashboards and written reports.

EDUCATION

Iowa State University   *August 2022 – December 2024*
Bachelor of Science in Data Science
Minor of Economics

Grand View University   *August 2020 – May 2022*
Completed 60 credit hours

SKILLS

Programming: Python, R, SQL
Data Visualization: Tableau, GGplot2, Matplotlib, ArcGIS
Statistics: linear regression, logistic regression, decision trees, SVM, Random Forests

OTHER

Certifications: CS50x: Harvard's Introduction to Computer Science (2022), 6.00.1x: MIT's Introduction to Computer Science and Programming Using Python (2022), Kaggle Advanced SQL (2024).
Conferences: Presented at the Iowa Technology and Geospatial Conference (2024).
Publications: Co-authored 'Housing Affordability in Iowa's Major Cities' in the Journal of Housing Economics, 2024.