Blake Underwood
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EDUCATION

Iowa State University   *August 2022 – December 2024*
Bachelor of Science in Data Science - GPA 3.32
Minor of Economics

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

EXPERIENCE

Iowa State Institute for Design Research and Outreach   *Aug 2024 - Present*
Data Analyst
- Assisted in building a zoning guide of Iowa encompassing 330 cities zoning information.
- Collected data by analyzing the city's zoning ordinances and zoning maps.
- Geocoded non-spatial zoning maps into shapefiles in ArcGIS.

Iowa State University - Data Science for the Public Good   *May 2024 – Aug 2024*
Data Science Intern
- Conducted housing research for 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 Tutoring   *August 2023 - Present*
Data Science Tutor
- Instructed fundamental topics in Data Science, Economics, and Statistics.
- Connected with and supported a diverse group of student athletes from around the world.

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

PROJECTS

Iowa Zoning Guide Map   *May 2024 – Present*
- Collaborated on an interactive map displaying housing-related zoning regulations in Iowa cities.
- 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 effects of factors like employment, commuting, and crime on housing affordability.
- Studied parameters such as supply and demand, mortgage rates, and homeownership rates.

Community Analysis Capstone   *January 2024 – May 2024*
- Conducted a socioeconomic analysis using data from the Bureau of Economic Analysis.
- Studied institutions across Iowa using data from the State Historical Society of Iowa by creating interactive Tableau dashboards and written reports.

SKILLS & OTHER

Skills: Python, R, SQL | Tableau, GGplot2, Matplotlib, ArcGIS | linear/logistic regression, decision trees
Certifications: Harvard CS50x (2022), MIT 6.00.1x (2022), Kaggle Advanced SQL (2024).
Conferences: Presented at the Iowa Technology and Geospatial Conference (2024).