

Matthew Wolz



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EDUCATION

Truman State University, Kirksville, MO

May 2027

B.S. in Computer Science & Data Science, minors in Mathematics & Statistics

- **President's List Member (3x), Vice President's List Member**

EXPERIENCE

National Association of Insurance Commissioners (NAIC) - Data Scientist Intern

Summer 2025 - Present

- Developed and deployed a predictive machine learning model for insurance filing complexity, becoming the first intern to deploy an ML model within the NAIC's database
- Built a data pipeline, engineered features, and tuned XGBoost models to achieve high predictive accuracy for Missouri filings
- Collaborated with stakeholders to align modeling goals with business needs
- Utilized Python to develop and validate machine learning models, translating complex data insights into clear, actionable recommendations for stakeholders

Data Science Department, Truman State University, Kirksville, MO - Teaching Assistant

Fall 2024

- Prepared lectures and labs for Data Science students on R, PowerBI, and Excel
- Evaluated student performance on homework, labs, and exam submissions

Health Sciences Department, Truman State University, Kirksville, MO - Research Assistant

Fall 2024 - Spring 2025

- Collected data from incoming freshmen, current junior students, and current faculty
- Applied predictive machine learning techniques to our data
- Used data visualization tools such as Python, R, and PowerBI to identify trends

PROJECTS

Study Buddy | *Android Studio, Java, Firebase* | [GitHub Repository](#)

- Developed an Android app in Java, connecting students with compatible study partners
- Designed a custom matching algorithm for real-time compatibility scoring
- Integrated Firebase for real-time data collection and user authentication
- Collaborated with a team of four using Git for version control

Kirkland | *MongoDB, React.js, Node.js, Express.js* | [GitHub Repository](#)

- Engineered a MERN stack web app to simplify student housing searches
- Partnered with local realtors to manage real-time property listings
- Designed an intuitive React.js UI and built backend APIs in Node.js

Wheelchair Accessibility Detection | *Gemini API, Google AI Studio, Vertex AI* | [GitHub Repository](#)

- Developed an AI-powered tool to assess wheelchair accessibility in public spaces
- Trained a model with Google AI Studio and Vertex AI to identify accessibility features
- Integrated Gemini API for image-based analysis and real-time accessibility evaluations

Truman Ride Sharing | *Firebase, React.js, Node.js, Express.js, Google APIs* | [GitHub Repository](#)

- Developed a local ride-sharing platform for Truman students to request and offer rides
- Integrated Google Maps API to display ride locations and enhance the user interface
- Utilized Agile Scrum to manage sprints, enhance collaboration, and resolve challenges

Technical Skills: Python, R, SQL, PowerBI, Predictive Modeling, Feature Engineering, ML Models & Deployment, Data Pipeline Construction, Excel, GitHub, Agile Scrum, Effective Communication