

J. Patrick Wisnewski, MSCS
AI/ML Engineer, Computer and Data Scientist
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Overview

Located in Columbia, MO and working full-time at MFA Incorporated as a Full Stack Developer and Data analyst. Pursuing further education while enrolled in the CS Ph.D. program at the University of Missouri.

Education

- **Master of Science** in Computer Science from **the University of Missouri** – December 2023
- **Bachelor of Arts** in Computer Science, Business Administration, and Information Technology from **Westminster College** – May 2021

Experience

MFA Incorporated – Full Stack Developer and Data Analyst (Aug 2023-Current)

- Development of CRUD based web applications using SQL databases, C#, and Angular frontend
- Development of machine learning models using SQL databases to build customer profiles, implementation of clustering algorithms, and linear regression models for sales forecasting
- Development of a large language model to assist current and potential customers in obtaining product information pertaining to our Agronomy Guide information

University of Missouri Center for Geospatial Intelligence - Graduate Research Assistant (Aug 2021-Dec 2023)

- Masters research on Synthetic Imagery in Transfer Learning for Department of Defense applications
- Development of a ML pipeline that included the creation of synthetic images and 3D models created in Blender and Unreal Engine, data collection from Unreal Engine by using C++ and then exporting images and accompanying data to be used in convolutional neural net models for image classification and object detection

Club Car Wash- Software Developer and IT Technician (Nov 2022-Aug 2023)

- Development of webapps with API implementation in Python and Django framework
- Provided real time weather and radar information in a centralized location for the use of Regional, Area, and General managers to make informed decisions on labor and sales expectations
- Provided data analytics from the SolarWinds ticketing system to be used for monitoring ticket flow and productivity
- Verkada Camera API dashboard app to monitor locations with automated reports
- Development of a large language model to assist in sales and customer support by providing a chatbot like interface for users to query information faster and in a more conversational way

Development Tools

Languages and OS	IDE	Version Control	Framework
▪ Python, R	▪ Visual Studio/VS Code	▪ Git	▪ Django
▪ C, C#, C++	▪ PyCharm	▪ TFS	▪ Angular
▪ TypeScript	▪ Jupyter Notebook	▪ DevOps	▪ Entity
▪ HTML, CSS	▪ Google Colab	▪ Jupyter Hub	▪ .NET
▪ SQL, SSMS		▪ Docker	▪ Node
▪ Linux, Debian		▪ Virtual Environments	
▪ Windows			