Joseph Gress

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EDUCATION

University of Wisconsin - La Crosse   Sept. 2021 – Dec. 2024
B.S. Computer Science, Mathematics minor | GPA: 3.6/4.0   *La Crosse, WI*
- **Honors**: Dean's List, JLS Scholarship

TECHNICAL SKILLS

Languages: Python, C#, C, Javascript, Typescript, SQL
Technologies: Pytorch, Angular, React, NodeJS, CI/CD, .NET
Tools: Github, Azure, OpenAI

EXPERIENCE

IT Architecture Intern   April 2024 – Present
Johnson Controls   *Milwaukee, WI*
- Playing a key role as an inventor of a **sales copilot (RAG)**, primarily utilizing **Azure OpenAI (GPT4)**, **Azure AI Search**, and **Azure ML Prompt Flow** to save approximately 15% of time spent searching documents
- Presented the Sales Copilot to the **CIO** and **CTO** of Johnson Controls, earning recognition for its patent potential and securing a **funding allocation** of $250,000. This funding is designated for scaling infrastructure and supports collaboration with a team of contracted data scientists

Data Analytics Intern   May 2023 – April 2024
Johnson Controls   *Milwaukee, WI*
- Utilized **spaCy**, **pandas**, and **gensim** in a VOC analysis of over 10,000 user comments, helping to identify key areas of improvement and aid allocation of 1/2 of total funding for fy24
- Developed a **React Azure DevOps** extension with **.NET 6** on the backend, utilizing **Azure App Service**, **Azure Functions**, **Azure SQL**, and **Azure Data Factory**
- Constructed a **CI/CD pipeline** using **Azure Pipelines** for seamless deployment of an Azure DevOps extension and a **.NET 6** backend to **Azure App Service**, along with an **SQL Server Schema** to **Azure SQL**

PROJECTS

Kaggle Cancer Detection | *Pytorch, Pytorch Lightning*   May 2024
- Leveraged transfer learning by training a **ResNet-18** model on a Kaggle dataset for the classification of cancerous cells, achieving a high classification accuracy of **92%**
- Developed a lightweight, custom version of ResNet tailored for binary classification tasks, utilizing **convolutional** and **residual blocks** with **maximum pooling** and **adaptive pooling** strategies for an **86% accuracy**
- Experimented with **data augmentation** and **hyperparameter tuning**, including adjustments to learning rates and optimizer configurations, to enhance model performance and accuracy

Job Search Engine | *Angular, NodeJS, MongoDB, AWS*   July 2023
- Built a user-friendly, **MEAN Stack** web application integrating the USA Jobs API and supporting profile management, user administration, and advanced search capabilities
- Visualized data from the CareerOneStop API using **Angular Charts** to provide useful insights on salaries, projected employment growth, and top industries hiring for specific occupations

LEADERSHIP

Executive Council Member   Sept. 2023 - May 2024
University of Wisconsin - La Crosse   *La Crosse, WI*
- Served as a student representative on the Executive Council, advocating for the needs and interests of various sports clubs within the university's competitive sports program.
- Engaged in weekly meetings with the coordinator of Competitive Sports to address ongoing issues and implement strategic improvements within the sports club program.
- Assisted in the resolution of infractions, ensuring adherence to program standards and promoting fair play and respect across all activities.