Jacob Smith

Kansas City, MO
(847) 899-3911
JDSmith1604@gmail.com
jdsp4k.github.io

Education

Bachelor of Science in Computer Science

University of Missouri-Kansas City (UMKC)   May 2024

Technical Skills

Languages: Python, C#, Haskell, Rust
Frameworks and Libraries: PyTorch, OpenCV, TensorFlow, Tkinter
Tools: Git, Docker, MongoDB, AWS (EC2, Glacier)
Development Environments: Visual Studio, Anaconda
Operating Systems: Window, Linux (Ubuntu, Debian, Arch)
Project Management: Trello, Slack

Work Experience

Research Assistant - UMKC   April 2021 - July 2024

As a key member of the UMKC research team, I led the development of an image processing and machine learning suite for analyzing medieval manuscripts to recover lost text. My role included designing and implementing algorithms that enhanced data processing efficiency and recovered historical information. My efforts advanced the technological framework, promoted collaboration across multidisciplinary teams, and improved project outcomes within the department.

- Spearheaded the development of a sophisticated image processing and machine learning suite, substantially enhancing research capabilities.
- Collaborated with a team to design, implement, and optimize algorithms.
- Authored and maintained a graphical application using Tkinter, which streamlined complex image processing tasks, improving user interface for non-technical users.
- Implemented version control practices using Git, significantly improving project documentation and collaboration across the research team.
- Played a pivotal role in a project that contributed to a paper currently under peer review, potentially impacting future practices in machine learning applications.
- Presented project updates and outcomes at weekly meetings, effectively communicating technical details and strategic insights to a diverse audience.