

Jacob Smith

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Education

Bachelor of Science in Computer Science

University of Missouri-Kansas City (UMKC)

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Technical Skills

Languages: Python, C#, Haskell, Rust

Frameworks and Libraries: PyTorch, OpenCV, TensorFlow, Tkinter

Tools: Git, Docker, MongoDB

Development Environments: Visual Studio, Anaconda

Operating Systems: Window, Linux (Ubuntu, Debian, Arch)

Project Management: Trello, Slack

Work Experience

Research Assistant - UMKC

April 2021 - Present

As a key member of the UMKC research team, I orchestrated the development of an advanced image processing and machine learning suite aimed at analyzing medieval manuscripts to recover lost or erased text. My role involves leading the design and implementation of complex algorithms, which significantly enhanced data processing efficiency and successfully recovered valuable historical information. My efforts promoted collaborative efforts across multidisciplinary teams and were pivotal in advancing the technological framework and 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.