

Taylor Clingenpeel

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Top Skills

- **Languages** – Python, C/C++, MATLAB
- **Technical** – Computer Vision, Machine Learning, Image Processing, TensorFlow, Artificial Intelligence, Linux, Git

Education

University of South Carolina, College of Engineering, Columbia, SC

- Bachelor of Science in Computer Engineering

Work Experience

Krumware, Charlotte, NC (remote)

09/2022 – 04/2023

Software Engineer

- Designed UML diagrams for a health industry clients legacy web application.
- API Development, including documenting over a hundred swagger endpoints.
- Developed python scripts to automate tasks such as account creation and email confirmations.
- Contributed to API architectural changes for better development practices.
- Maintains development and production databases (SQL).

University of South Carolina, Columbia, SC

06/2018 – 05/2022

Research Associate

05/2019 – 05/2022

- Improved the object detection accuracy of our neural networks and expanded its uses by ~30%.
- Recorded success in accuracies which achieved the grant goals and led to the team beginning to publish work.

Undergraduate Research Assistant

06/2018 – 05/2019

- Collaborated with a University Professor on 3013 Corrosion grant awarded by the DoE.
- Created data visualizations for grant work in collaboration with Savannah River Nuclear Laboratory.
- Reads and parses large microscopy image datasets of undocumented filetypes.
- Designed a GUI application to process image data and give users a wide range of statistical and image manipulation methods.
- Tests and manipulates neural networks for accuracy improvement, maintains project library.
- Created a GUI application that trains, tests, and validates neural networks on microscopy datasets.