# Taylor Clingenpeel

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## *Top Skills*

- **Languages** – Python, Java, C++
- **Technical** – Computer Vision, Machine Learning, Image Processing, TensorFlow, 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 to enhance the functionality of a legacy web application for clients.
- Streamlined API development by documenting over 100 Swagger endpoints, ensuring clarity and ease of use.
- Automated manual tasks through the development of Python scripts, resulting in improved efficiency and accuracy.
- Collaborated on architectural changes to optimize API development practices, leading to enhanced performance and maintainability.
- Managed and optimized SQL databases for both development and production environments, ensuring data integrity and smooth operation.

**University of South Carolina,** Columbia, SC                          **06/2018 – 05/2022**
*Research Associate*                                                    05/2019 – 05/2022
- Enhanced object detection accuracy of neural networks by ~30%, expanding its applications.
- Successfully achieved grant objectives and facilitated the team's initiation of publications.

*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.