Taylor Clingenpeel

TaylorClingenpeel@gmail.com • *TaylorLCling.github.io* • (317) 289-3631

Top Skills

- **Languages** – Python, C++, Java
- **Technical** – Django, NodeJS, Computer Vision, Back-End Development, Machine Learning
- **Development** — Linux, MacOS, Windows, Git, Docker, CD/CI, Docker,Jyra

Education

University of South Carolina, College of Engineering, Columbia, SC
- Bachelor of Science in **Computer Engineering** (2019)

Work Experience

Undergraduate ML/AI Research Assistant   06/2018 –- 05/2019
University of South Carolina   *Columbia, SC*
- Collaborated with a University Professor on *3013 Corrosion grant* awarded by the DoE.
- Reads and parses large microscopy image datasets of undocumented filetypes.
- Designed a GUI application to process **big 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.

Machine Learning Research Associate   05/2019 –- 05/2022
Heterogeneous and Reconfigurable Computing   *Columbia, SC*
- Continued work on *3013 Corrosion grant* now as a full associate at the College of Engineering and Computing.
- Enhanced object detection accuracy of **neural networks** by ~30%, expanding its applications.
- Successfully achieved grant objectives and facilitated the team's initiation of publications.
- Utilized **PyTorch** for scripting and developing **machine learning models**, enhancing the accuracy and efficiency of neural network-based research.

Software Engineer   09/2022 –- 04/2023
Krumware   *Charlotte, NC*
- Developed and maintained web applications using **Python** and **Django**, focusing on backend development and database integration.
- Streamlined **API development** by documenting over 100 Swagger endpoints.
- 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.

Repair Technician   10/2023 — 03/2024
CPR Cell Phone Repair   *Lexington, SC*
- Proficient in software and hardware diagnostics, combining university and on-the-job skills.
- Excelling in customer service, managing device intake, diagnostics, and repair communication.
- Mastered new device repairs, ensuring efficiency, safety, and reliability.
- Skilled in repairing diverse devices, including extensive experience with Apple products.
- Technician at an Apple IRP, accessing **Apple Repair Certifications** for specialized expertise.

Repair Technician   03/2024 — Present
UBreakiFix   *Charlotte, NC*
- Worked as temporary technical lead for the store in South Charlotte
- Managing device intake, diagnostics, and repair communication.
- Leveraged soldering and advanced computer repair experience, increasing profits and the experience level of the store generally.
- Technician at a Samsung and Google IRP, trained and delivered warranty repairs for both companies, acting as a representative for them.