Taylor Clingenpeel

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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

Head of Software Engineering and IT 12/2024 — *present*

MedSource Imaging *Charlotte, NC*

- **Designed and deployed software-driven solutions** for computer refurbishment and deployment, combining hardware diagnostics with **automated OS imaging, configuration management, and secure provisioning** via **Python and scripting tools**.
- **Engineered and maintained enterprise IT systems** (Windows Server, Active Directory, Intune MDM, network infrastructure) with a focus on **scalability, reliability, and automation** using **Python, Bash, and Powershell**.
- **Developed automation and integration tools** in **.NET, C#, Python, and SQL** to streamline workflows, reduce manual intervention, and integrate cross-department systems.
- **Acted as Head of IT and Software engineering**, applying **software development practices (version control, testing, automation)** to infrastructure and system challenges while collaborating across manufacturing, IT, and operations.

Web Developer 11/2024 — *present*

Modern Pixel *Charlotte, NC*

- **Engineered and deployed responsive websites**, customizing themes and templates with **HTML, CSS, and JavaScript** to deliver performant, maintainable solutions.
- **Integrated third-party APIs and plugins** (payment gateways, analytics, form processing) to extend platform functionality and support client business requirements.
- **Optimized site performance** by improving load times, refining front-end code, and implementing SEO best practices, resulting in faster, more accessible websites.
- **Collaborated with sales and project stakeholders** to translate business requirements into technical specifications and support ongoing maintenance, updates, and feature enhancements.

Repair Technician 10/2023 — 11/2024

CPR Cell Phone Repair & UBreakiFix. *Charlotte, NC*

- Proficient in software and hardware diagnostics, combining university and on-the-job skills.

- **Excelling in customer service**, managing device intake, diagnostics, and repair communication.
- **Leveraged soldering and advanced computer repair experience**, increasing profits and the experience level of the store generally.
- Skilled in repairing diverse devices, including extensive experience with Apple products.
- Technician at an Apple, Samsung, and Google IRP. Accessing **Apple Repair Certifications** for specialized expertise. Trained and delivered warranty repairs for all companies, acting as a representative for them.

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.

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.

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.