Ukiah Sperry

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EDUCATION

The University of North Carolina at Charlotte | Charlotte, NC
B.S. in Computer Science | GPA: 3.6/4.0 | **May 2025**
M.S. in Computer Science | GPA: enrolled/4.0 | **December 2026**
Organizations: Charlotte AI Research Club, Honors Thesis in Reinforcement Learning, Truist Accelerator program

TECHNICAL SKILLS

Technologies: Git, Python, Flask, FastAPI, Judge0, Jupyter Lab, Numpy, Seaborn, MatPlotLib, Pandas, Scikit-learn, TensorFlow, PyTorch, React.JS, Javascript, EasyOCR, YOLOv8, OpenCV, Java, C++, C#, PostgreSQL

WORK EXPERIENCE

UNC Charlotte CCI | Lead Teaching Assistant | Charlotte, NC **Aug 2023 - Present**

- Helped 300+ students in Intro to Python and Intro to Java improve their programming skills, by hosting comprehensive class sessions and providing extra videos and readings
- Streamlined assignment grading processes, reducing grading time by 30%
- Organized weekly office hours attended by an average of 25 students/week, with a 95% satisfaction rate

Scriptium | Web Developer | Charlotte, NC **Aug 2025 - Present**

- Founded a startup with two previous students at UNC Charlotte which was recently got accepted into the UNC Charlotte incubator program (49th Foundry Program)
- Participated in developing a suite of four education based applications, with the plan to pilot one of them (An in browser IDE) to UNC Charlotte for the Spring 2026 semester.
- All apps were developed using FastAPI, React, and Vite, with IDE using Judge0 for code execution.

PROJECTS

Poster Name Extraction

- Developed a **Flask** web app using **YOLOv8** and **EasyOCR** to extract artist names from festival posters.
- Trained a custom **YOLO** model with my **hand labeled data**; applied **RapidFuzz** for text cleanup and deduplication.
- Integrated **Spotify OAuth** (**Spotipy**) for user login and prepared artist cross-matching with liked tracks.
- Implemented image preprocessing **(Pillow, OpenCV**) and PDF support (**pdf2image**) for flexible uploads.

Vehicle Price Prediction

- Built **Neural Network & KNN** models for car price prediction with 94.7% R^2 accuracy with KNN and 92.35% with NN
- Processed 15,915 car listings, applying feature scaling and one-hot encoding.
- Used **PyTorch & sci-kit-learn** for model development and evaluation.
- Visualized insights with **Matplotlib & Seaborn** to analyze price factors.