Cy Dixon

B.S. Computer Science

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Professional Goals and Summary

Detail-oriented Computer Science graduate with hands-on experience in machine learning, data processing, and software development. Proven ability to apply theoretical knowledge to practical research applications. Seeking opportunities in web development, software engineering, or data science to create efficient, elegant, and valuable applications.

Experience

- **Student Researcher, Kentucky Mesonet**
  Bowling Green, KY   September 2023 – July 2025
  - Utilizing Python and MATLAB for climate data processing and manipulation.
  - Researching and developing machine learning and AI models that will produce fine grained weather and climate predictions using Mesonet and Atmospheric data.

- **Student Research Assistant, WKU Center for Energy Systems**
  Bowling Green, KY   August 2024 – December 2024
  - Worked closely with Mechanical and Electrical Engineers in a workshop lab setting. Work includes computer vision and onboard robotics programming.
  - Conducted work on a Raspberry Pi 5 using depth cameras.

Education

- **Western Kentucky University**, Bowling Green, KY
  MS in **Computer Science** (in progress)   August 2025 – May 2027
  Thesis Track

- **Western Kentucky University**, Bowling Green, KY
  BS in **Computer Science** - System/Scientific Applications Concentration (ABET) August 2021 – May 2025
  Relevant Coursework Includes: Data Structures, Algorithms, Software Engineering, Data Science

Technical Skills

- **Languages**: Python, MATLAB, Java, C, C#

- **Frameworks/Tools**: Docker, Django, React, Next.JS, Git, GitHub, Android Studio

- **Databases**: MySQL, SQLite

- **Web Technologies**: HTML, CSS, Tailwind, JavaScript

- **Other**: Networking, Machine Learning, Data Processing, Computer Vision

Projects

- **Alien P.R.O.B.E - RFID Operational Bridge** - GitHub Link
  Android Studio, Java, Kotlin, XML, SQL
  Developed an Android mobile app to use with an Alien RFID scanner and antenna to scan RFID tags and cross-reference with a connected database.

- **Brewed Thoughts** - GitHub Link
  Android Studio, Java, Kotlin, XML, SQL
  A project showcasing coffee-inspired insights and data analysis, exploring various beans, flavors, and brewing methods through an interactive web interface.

- **Smart Manufacturing Robot - Data and Networking Solution**
  Docker, Python, RESTAPI, Postgres, Networking, Data Pipelineing, Version Control
  Done in conjunction with the WKU Manufacturing and Computer Science programs. Data pipelining solutions for an industrial FANUC robotic arm and surrounding systems. I worked on data analysis systems and their pipeline through our data broker system and storage and retrieval of the data. We implemented a containerized approach with docker compose to handle our containers.