Cy Dixon

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Professional Goals and Summary

Seeking work opportunities in computer science/engineering involving web development, backend services, software development (frontend, backend or fullstack), IT, or networking services. I aim to create and maintain applications that are efficient, elegant, and usefull.

Experience

- **Student Researcher, Kentucky Mesonet**

  Bowling Green, KY   September 2023 – Present
  - 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

  BS in **Computer Science** - System/Scientific App Concentration (ABET) August 2021 – May 2025

  Relevant Coursework Includes: Data Structures, Algorithms, Software Engineering, Data Science

Skills

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

- **Frameworks**: Django, React, Next.JS

- **Databases**: MySQL, SQLite

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

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.