As a SOURCE-funded fellow working under Dr. Wen, I’m helping develop a system for environmental data transfer, storage, and dissemination. The work bridges environmental science, coding, and community collaboration. More specifically:

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Programming in Python and R to automate sensor data processing, formatting, and visualization

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Working with CTD (Conductivity, Temperature, Depth) sensors\* and other field equipment for real-time environmental monitoring

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Collaborating with local community partners

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Supporting hardware integration, including sensor setup, calibration, and microcontroller -data logging

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Through this role, I've gotten to strengthen my skills in field instrumentation, open-source development, and applied data analytics.

\*EnviroDIY MayFly Logger, HOBO TidbiT MX