

# Joel C Reiter

[jreiter2001@gmail.com](mailto:jreiter2001@gmail.com) | 704-619-6535 | Durham, NC 27703 | [Joelreiter.com](http://Joelreiter.com)

## PROFESSIONAL OBJECTIVE

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Problem solver and strong communicator with 1.5 years of experience developing and maintaining a large-scale scientific web application designed to search and manage millions of environmental health research references. Eager to leverage my expertise in full-stack development to advance my career in the software industry.

## WORK EXPERIENCE

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### US Environmental Protection Agency - Full-Stack Web Application Developer

Dec 2023 – May 2025

Developed a Django based web application to modernize the Health and Environmental Research Online (HERO) system, enabling scientists to efficiently retrieve and store over six million scientific references.

- Implemented back-end logic(Python), managed database interactions(PostgreSQL, Oracle), and created responsive front-end features(html, css, Javascript).
- Developed and optimized APIs to facilitate seamless interaction between the front-end and database.
- Automated data processing workflows to streamline the import, export, and management of large scientific datasets.
- Led the migration from Django Dramatiq to Django Celery for improved task processing and monitoring
- Conducted code reviews for team members, improving overall code quality and performance.
- Participated in Agile development cycles, including sprint planning, stand-ups, and retrospectives to improve project efficiency and collaboration.
- Developed a Streamlit application to assist scientists with Python-based data analysis, enhancing efficiency and usability

## EDUCATION

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### Appalachian State University

Bachelor of Science in Computer Science: GPA-3.4

### Projects

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#### Mixr Bot (React Native) - In Progress

- Built and deployed a React Native application to accompany a mixed drink pouring robot.
- Allows users to order a drink in app over Wi-Fi and watch as multi-ingredient drinks are mixed and poured in seconds.
- Use AWS services to authenticate and store user data.

#### RTDrones(React, Next.js)

- Built a mock website for a hypothetical drone business.
- Deployed with Vercel
- Backend uses Supabase and Google Cloud Storage.

#### Y86-64 Simulator (C/C++)

- Developed a simulated processor that runs Y86 code with all possible functions.

## Skills

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- Java, C, C++, Python, SQL, R, Git
- Django, HTML, CSS, JavaScript, React, Node, AWS, GCP, Docker
- Experienced with data structures and algorithms, debugging, and data analysis
- Complex Problem Solving, Technical Writing, Assembling computers, Software QA
- Machine Learning for Cyber Security - Manipulate, clean, and visualize data sets to train ML prediction models