**Ella Carter**

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**WORK EXPERIENCE**

**Teaching Assistant, UNC CH Dept of Applied Sciences**, Chapel Hill, NC  **January 2023-May 2023**

* Mentored 60 students in designing and building projects using CAD software and the technology in UNC’s makerspace. Examples of this technology include 3D printers, circuitry equipment, and laser cutters.
* Taught students to program Arduinos with Python
* Coordinated with five other TAs to host office hours, ensuring widespread availability

**Climate Change Advocacy Intern, Working Landscapes,** Warrenton, NC **January 2021 – April 2021**

* Created a literature review covering how climate change will impact agriculture in NC
* Wrote a presentation for other food hubs in NC on how climate change will impact their work and how they can adapt their programming to take climate change into account; food hubs are facilities that facilitate the distribution of locally grown produce

**Renewable Energy Education Intern, Center for Energy Education,** Roanoke Rapids, NC

**May 2020 – August 2020 and May 2017 – September 2017**

* Developed and delivered a report and presentation on racial equity in the solar industry
* Researched and wrote script and delivered narration for a video on climate change in NC
* Collaborated with four local teachers to design, run, and teach two summer camps for middle school students about renewable energy
* Compiled a list of 400+ community leaders in Excel, then created and sent each of them invitations to C4EE's grand opening in October of 2017

**COMPUTER SCIENCE PROJECTS**

**Events Calendar,** Class Project **April 2023**

* Collaborated with a team of 4 and developed a fully functional web application using the **AngularJS** framework. Our web app featured a **Python** based backend, a **SQLite** database engine, a **SQLAlchemy** database toolkit, and a **FASTAPI** RESTful API
* Managed code styling, test development, API creation. Also wrote backend service functions.

**VOLUNTEER EXPERIENCE**

**Hub Leader,** *Sunrise Movement***, Warren County and Chapel Hill, NC September 2019-May 2021**

* Sat outside UNC’s administrative building with posters every Friday in a climate protest for six months
* Wrote an op-ed about the opportunity for renewable energy development to create jobs that was published in a local newspaper
* Recruited 25 volunteers and provide them with materials to send 1,000 post cards to voters
* Organized a climate protest in Chapel Hill in December 2019 by collaborating with 6 other activists to recruit 10 speakers, find sound equipment, and distribute 150 flyers
* Made regular posts to the hub’s Instagram and Facebook pages

**SKILLS**

**Programming Languages:** Python (Advanced), Java (Advanced), JavaScript (Intermediate), SQL (Intermediate)

**Tech Tools:** Tableau, GitHub, PVSyst, CAD software (AutoCAD, TinkerCAD and Sketchup)

**General Skills:** Technical troubleshooting, data collection and analysis, report writing, knowledge of the renewable energy industry, meeting facilitation, technical communication, relationship building, public speaking

**EDUCATION**

**University of North Carolina at Chapel Hill August 2023**

*Bachelor of Arts:* Computer Science – Minor in Environmental Science

GPA: 3.4

**Related Coursework:** Environmental Policy, Environmental Business, Software Engineering, Web Development