

AUSTIN D. SNYDER

66 Hamilton Rd, Chapel Hill NC 27517 • (919) 656-7826 • snyder.drew.austin@gmail.com

EDUCATION

Chapel Hill, NC	University of North Carolina-Chapel Hill	Aug 2018 - May 2022
<ul style="list-style-type: none">• GPA: 3.79• Majors: Computer Science, Environmental Science• Minor: Physics• Coursework: Data Structures, Computer Organization, Web Programming, Files & Databases, Algorithms & Analysis, Machine Learning• Honors/Awards: Honors Carolina Scholar, Buckley Public Service Scholar, Carolina Research Scholar• Programming Skills: Python, R, C#, Java, JavaScript, TypeScript, HTML/CSS, PHP, SQL, SAS, Visual Basic		

EMPLOYMENT

Research Intern	Florida Atlantic University	Jun 2021 - Dec 2021
<ul style="list-style-type: none">• Developed Python, R, and MATLAB algorithms to optimize the design of ocean current turbines using control co-design methodology• Optimization methods often utilized dynamic programming with application of linear programming• Computationally-expensive aspects of the design were optimized through supervised machine learning processes		
Research & Development Intern	National Renewable Energy Laboratory	Jun 2020 - Aug 2020
REopt (https://reopt.nrel.gov/): Techno-Economic Decision Platform		
<ul style="list-style-type: none">• Developed Python and R algorithms to collect and analyze data on the geographic viability of natural gas power, presenting results in the form of a paper & poster at a conference• Augmented and tested REopt Lite using a RESTful API, as well as writing & publishing API documentation• Collaborated with a team of other developers using Git		
Software Development Intern	SAM Analytic Solutions	Jul 2018 - May 2019
<ul style="list-style-type: none">• Debugged and augmented monitoring and security systems alongside the head security engineer• Developed web application to track users' login locations, notifying network administrators of suspicious activity• Worked with a team of developers to create a web application monitoring the output of solar panels in solar farms, notifying overseers with exact locations of panels in need of repair• Partnering with the Environmental Protection Agency, created a novel search engine for parsing "dirty" text files through the application of natural language processing		

CAMPUS ACTIVITIES & PROJECTS

Renewable Energy Special Projects Committee, <i>Co-Chair & Project Leader</i>	Sep 2018 - Present
<ul style="list-style-type: none">• Conducted research and data analysis on behalf of students, faculty, and staff to design renewable energy, energy efficiency, and energy education projects on campus• Reinstated an energy reduction competition and coordinated bringing the first electric bus to our town's fleet• Documented the history of UNC energy projects and built a transparent administrative structure for project funds	
Executive Undergraduate Student Government, <i>Student Body Executive Secretary</i>	Sep 2018 - Apr 2021
<ul style="list-style-type: none">• Identified areas of campus policy without institutional support and instituted structures and projects to fill gaps• Modified campus dining services to support plant-based diets, as well as created a "green certification program"• Advocated for contextualization of campus history and created a class for campus organization leaders• Oversaw and developed policy for the entirety of student government and served as primary public communicator	