

Python Developer Python Developer Python Developer - United States Department of Agriculture, Agricultural Research Service Ithaca, NY Work Experience Python Developer United States Department of Agriculture, Agricultural Research Service - New York, NY November 2018 to Present Implementing a database of RUFAS, a modern state of the art farm simulation program, allowing researchers to easily retrieve data when integrating their simulation routines into the program. Optimizing linear program for the most cost-effective ration formulation that meets nutrition and milk production requirements of farm animals. Computer Science Project Team Member Cornell University Sustainability and Design - New York, NY September 2018 to Present Optimizing existing thermal system model by figuring out and improving the time taken by the HVAC to change room temperature to optimal setting, using MATLAB script for easy comprehension and modification. Developing app for gauging user preference of room temperature and to use machine learning for suggesting timed temperature modifications to user. Improving server functionality of occupancy sensing system architecture via post/get requests. Cornell University Undergraduate Research Board - New York, NY September 2018 to Present Cornell University Undergraduate Research Board - New York, NY September 2018 to Present Mechanical, Electrical and Plumbing Researcher Construction and Engineering Program of America - New York, NY October 2014 to May 2015 Researched sustainable initiatives (LEED, solar panels, radiant heating, electric utility) for the construction of Building 92 situated in Newburgh, NY. Presented proposal covering all aspects of site development with emphasis on alternative energy solutions, such as green rooftops and natural lighting, to the American Institute Of Architecture at the Westchester Hudson and Valley Center for Architecture. Education Bachelors of Science in Operations Research and Information Engineering in Engineering Probability and Statistics College of Engineering, Cornell University, Ithaca May 2020 National College Match Finalist March 2015 Skills CSS (2 years), Eclipse (2 years), Excel (Less than 1 year), GIS (Less than 1 year), MATLAB (3 years) Links <https://github.com/mk848> <http://www.linkedin.com/in/mk848>

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