.Career Planning Worksheet

Please complete this career planning worksheet and submit it ahead of your career coaching call. Your coach will review ahead of time, and use this as a frame of reference for coaching around your career goals.

Upskiller or Reskiller? *Review the information in your unit for a reminder on these definitions.*	☑ Upskiller ☐ Reskiller
My career change includes: *Check off what type of change you are making. Check all that apply.*	☑ Industry ☑ Role ☑ Company
Current Career + Next Steps *Current job, including what you do in your role specifically? Why are you wanting to leave this role / career? Why did you decide on this course?*	Currently I am retired after almost thirty years working as an aerospace engineer. I am a mathematician by training. After graduate school I spent four years as an Assistant Professor of mathematics at Iowa State University before launching a second career. Now I am eager to launch my third career! These are exciting times! There has never been a better time to be a mathematician than right now. The rise of “Big Data”, Data Science, Machine Learning and AI has created an abundance of opportunities, and I am confident that there’s a place for me in these areas.
Transferable Skills *Make note of any transferable skills you have acquired in your current, and previous experiences that will benefit you in your new career.*	Mathematical expertise is itself one of the most transferable skills. Both the subject matter itself and the habits of thought that are necessary. One of these is the precision and the clarity of thought that are unmatched by any other discipline. Another is the ability to think at multiple levels of abstraction. We are trained to see both the forest and the trees! This enables one to skeptically evaluate the presumed context of a problem and to reframe it if need be. Finally, one learns how to skilfully and elegantly present technical material, both orally and in writing.
Relevant Experience *Name some of your past experience that is related to your new career goals including how many years experience*	My five years in graduate school, four years as an assistant professor and almost thirty years experience conducting R&D in the aerospace industry have all provided many opportunities to conduct research, to teach, to give oral and written presentations involving sophisticated ideas and technical results, and to mentor students and junior colleagues.
Job Search Locations *What city or cities are you pursuing new opportunities in? Job Guarantee participants are required to search in eligible cities.*	I plan to look for opportunities in the greater Seattle area.

Values, Passions, Interests *What values, passions, interests are you hoping to incorporate into your career goals? Ex: I am passionate about climate change and want to use my new skills for a job in sustainability and climate.*	I am passionate about clarity of thought! I like to correct muddled thinking. There is certainly no shortage of that! I want to do what I can to enable decision makers to be guided by an informed view of the relevant data. A couple of application domains that interest me are bioinformatics and financial economics. I once made a noteworthy contribution concerning the pricing of certain commodity options.
Job Titles to Pursue *Based on what you have learned so far, what job titles seem like they could be a good fit for you? List them here. Use the activity in this unit to get to these titles.*	Data Scientist, Machine Learning Engineer, Data Engineer, Data Analyst, Adjunct Professor of Mathematics or Data Science, Research Engineer, Quantitative Researcher, Statistician, Analyst, Consultant, Staff Scientist, Data Mining Analyst, Staff Analyst, BI Analyst.
Industries to Pursue *Based on what you've said so far, what are some industries you're going to pursue jobs in? Remember, tech jobs are available beyond the tech industry.*	Aerospace, Biotech, Pharmaceutical, Financial Services, Corporate Training, Consulting. And of course, Information Technology!
Salary & Benefits *What are your salary and benefits expectations? What is the minimum you're seeking, what benefits are important to you?*	Base salary at least $200K, with full medical, dental and vision benefits. And a 401(k) plan with generous employer matching.
Motivation *What is your source of motivation for pursuing this course and career change? What are you going to reflect on when things are hard so you don't give up?*	Although I am currently retired, I am not in a financial position to remain so. It was not my choice. Moreover I am intellectually restless, and I believe that I can use that energy in service of any number of worthwhile ends. I firmly believe that one can do well while doing good! I see my future as working in Data Science, ML and AI for perhaps a decade, and to follow up by teaching it, perhaps as an Adjunct Professor at the University of Washington.
Capstone & Project Ideas	I have an interest in financial economics. One question of interest is whether prices in a given market are *efficient*, meaning that they reflect all publicly known information. Some years ago (around 1981), two researchers published a paper on the efficiency of parimutuel betting markets. They found there were inefficiencies in the horse track betting market that could profitably be exploited! Since the appearance of the original paper on this subject, it has become something of a cottage industry among researchers in financial economics. One of the authors of this work was Professor William T. Ziemba. He published a book for the general public entitled *Beat the Racetrack*. It would be most interesting–and fun!--to investigate the extent to which these market inefficiencies still exist!