Data Science - Cover Letter

I am Computer Science PhD student at Stanford specializing in **Data Science** and HCI. I am finishing my dissertation this summer and am aiming to start full-time opportunities in September. I am experienced in using **PyTorch** for deep learning, and can conduct data analyses in **Python** and **R**. My research experience is in conducting **large-scale data science** experiments (during my PhD work at Stanford using Coursera's datasets, as well as on my own HabitLab system), modeling user behavior using **deep learning** (during my PhD work at Stanford on my HabitLab system), as well as building **machine learning-powered systems**, including **natural-language processing** for review quality prediction (during my internships at Google), and **reinforcement learning** (during my PhD work at Stanford on my HabitLab system). I am a US citizen and would prefer to work in the San Francisco Bay Area. My portfolio is at https://www.gkovacs.com/resume.pdf

During my PhD, I have run a number of data science and machine learning experiments on HabitLab (https://habitlab.stanford.edu/), a behavior change system I built that provides users with personalized interventions learned through reinforcement learning. It is an in-the-wild large-scale A/B testing platform that has over 12,000 daily active users, all organic installs achieved without paid advertising, from which I have derived a dataset of over 800 million browsing sessions which I analyze in my research studies. I have done a variety of data science and machine learning work with this platform, including predicting user preferences for interventions over time (classification using recurrent neural networks — deep learning), personalizing interventions to maximize effectiveness (reinforcement learning using multiarmed bandits) predicting time spent on sites (regression using random forests - machine learning), as well as a number of analyses such as predicting effects of intervention rotation on intervention effectiveness and user retention (cox regression and linear mixed models data science), and modeling externalities of interventions on time spent (linear mixed models data science). My publications listed at https://www.gkovacs.com and https:// www.gkovacs.com/resume.pdf describe these various data science and machine learning projects in additional detail.