Name: Thanh Nguyen
Faculty Supervisor: George Westerman
Direct Supervisor: Susan Young
Off-Campus Location (City/State/Country): Bellingham/WA/USA
Summer 2020
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Employment pathways & the future of work

Project Overview
The objective of this research is to better understand the ease of mobility between jobs and translate information about automation from an occupation level to a job posting level. Findings from this work can be useful across the learning ecosystem and particularly for a) workers seeking to plan their next career moves and b) employers wishing to improve hiring and talent management practices. I will be working under Professor George Westerman under the direct supervision of Susan Young for the duration of this project.

Personal Goals & Responsibilities
Throughout this term, I will be responsible for:
• *Scraping a variety of online job postings*
• *Cleaning job postings to extract job title, required tasks, and required skills*
• *Clustering similar task descriptions and mapping them to tasks in O*NET*
By the end of the term, I hope to accomplish all above task as well as provide a high-level understanding of the connections between various careers and their overlapping skillsets. Additionally, I hope to better understand modern machine learning algorithms that aims to categorize various jobs and skillsets.

Remote Work Plan
The plan for maintain communication remotely will be through Zoom Meetings and emails. Given that the research will be computational and deals with online job postings, access to reliable internet will be sufficient to get all the necessary information and materials.

Personal Statement
My interest from this UROP stem from the desire to apply various computational tools to better understand real-world sets of data about employment. Given that the employment climate is continually changing and will be even more dynamic with recent developments in the economy, it will be crucial to have an understand of how to adapt old skills to new occupations. By the end of this summer term, in addition to having a greater understanding of the future of employment, I also hope to learn different ways of extracting and analyzing useful information from data.