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CSCI E-11 Term Paper Proposal

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**Future Technology: Office Networking Application**

The *Office Networking App* that Dr. Brown utilized to “see which relationships currently need attention” (page 7) is the vignette that stood out to me as a technological innovation that I’d like to explore more deeply. This vignette covers all of the technologies discussed: big data, IoT, and cybersecurity.

The proposed application would capitalize on the current loss of productivity stemming from suboptimal interpersonal relationships between professionals that are supposed to be organized around a common goal. In the past I have assembled crude tools based on graphical analysis that are aimed at doing this precise task, motivated by a desire to manifest productively harmonious professional relationships with key players in my organization. This idea can be extended to meet broader markets in future iterations (should it see success in the professional domain). Future iterations of this idea could be extended to a social context with the objective of improving interpersonal relationships as they pertain to ones’ own life goals and values.

The technology I’d like to explore most deeply in this application would be Big Data aspects of implementing an effective manifestation of this idea. Three aspects of this topic are relevant to the problem: (1) the integration of various of data sources that describe a user’s interpersonal relationships, (2) the design of the data systems & storage schema of said data, and (3) the analysis of said data to produce machine learning algorithms and logic systems that are useful to the user.