Yuriy Kuptsov
June 27, 2021
Assignment name: CS 470 Final Reflection
https://www.youtube.com/watch?v=nWjl0RTYIDA

Experiences and Strengths

This course will help me meet the requirements for job opportunities involving deployment of applications to the cloud. I anticipate, as well, that it will enable me to answer various cloud-oriented questions at interviews. Finally, it will provide a good background for further investigation into cloud computing.

I am able to quickly understand problems and find solutions to those problems. I am highly dedicated and willing to put in the time to succeed.

I believe I am well prepared to assume an entry-level position as a software developer. Additionally, I believe I am a good candidate for project management.

Planning for Growth

I've been asked to plan for the growth of this cloud-based application, but the overall purpose of the application has never been presented, beyond its use as a training example for cloud-based migration. In the absence of a clear description of the purpose of this application, I am taking the liberty of defining its purpose myself.

The purpose of the application is to provide a discussion forum on various aspects of cloud computing. Each category upon which a user may click takes the user to a discussion forum on the topic. The future of the project will involve enhancing the Angular.js front-end to allow users to create subcategories for discussions, layout questions and answers in a more user-friendly form, and to allow threads discussing the virtues or failing of answers to the questions.

My expansion of the system will focus primarily on the serverless functionality of Lambdas and their interactions with the DynamoDB database. Additional fields will need to be added in order to index the tables based on categories. Additional fields will also be required to store discussion threads about the answers to questions.

I chose serverless in order to put the burden of scale entirely upon Amazon WS. In other words, I will let Amazon handle scale so that I do not need to handle scale myself.

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As for cost, it would be a function of the number of users and how frequently they visited my site, posted or responded to questions, or participated in discussions on questions. I would seek to add enough advertising to fund the growing demand. If no one visits or participates, my cost and revenue would be zero. If I can induce visitors and participants to click on ads, then the revenue should grow on a curve similar to the usage costs. The key is ensuring that each user, on average, induces sufficient ad revenue to pay for Amazon's costs.