

Weekly Progress Report - 9

Section 1: Implementation/development progress

This week we had redistributed the tasks where Siqi will be responsible for relating our Gantt chart data to a specialized task management tool Jira. I did not have much time this week to make a contribution, however, I did get a chance to read through the research paper '*Deep Learning for Software Vulnerabilities Detection Using Code Metrics*' To get a better understanding of the underlying scope of our project. This paper discusses code metrics as a feasible feature for building automatic vulnerabilities prediction (AVP) tools.

Section 2: Issues and Challenges

I feel still lacking behind in terms of domain knowledge regarding deep learning therefore I was unable to make any meaningful contributions to the implementation of our prototype framework and the replication of a research paper.

Section 3: Implementation Goals

Before the next client meeting, my goal is to set up a professional and informative homepage and wiki section for our git repository. I will also be working with Siqi to better definite the scope of our project. To find the scope of our presentation Siqi and I will briefly skim through as many research papers as we could manually or automatically. When looking through the different papers, we will search for keywords, such as "*cross-domain*", "*vulnerability detection*", and "*deep-learning*". The end result should be a table similar to the one presented in '*A Comparative Study to Benchmark Cross-Project Defect Prediction Approaches*' table 4.

