Senior Design: Milestones, Timeline, and Matrix Effort

1) **Milestones**
    a) **Fintuned pretrained LLM**
    b) **Demo Ghidra plugin**
    c) **Finalized desktop app front-end**
    d) **Integrating fintuned LLM with desktop application**
    e) **Finalize desktop application back-end**
    f) **Demo application**
    g) **Deploy Application**
    h) **Develop a landing webpage for the desktop application**

2) **Timeline**

Task	Start and Completion Dates
Research LLM models that could be utilized as an infrastructure and a starting point of the LLM models to be built.	10/9/2025 - 29/9/2025
Develop the application home screen.	22/10/2025 - 1/11/2025
Research how to utilize Ghidra as a plug-in.	1/10/2025 - 15/1/2025
Preprocess and refine the datasets that will be utilized in	8/10/2025 - 1/11/2025

the application to train the LLM models.	
Integrate LLM fintuned model	**19/11/2025 - 21/11/2025**
Train LLM model to analyze executable files and decompile them into C-Code.	**21/10/2025 - 1/12/2025**
Integrate Ghidra as a plug-in to disassemble the executable files into Assembly-code.	**1/11/2025 - 22/1/2025**
Test the models analysis of C code and Assembly code.	**22/11/2025 - 19/12/2025**
Document the analyzation performance of the built models in comparison to other recent models that target the same criteria.	**7/1/2026 - 28/1/2026**

Develop the analyzation page of the application that showcases the analyzation of both C and Assembly codes.	**28/1/2026 - 18/2/2026**
Build the malware detection back-end part of the application (still in progress in terms of applicable tools) **(Final backend part of the application)**	**28/1/2026 - 25/2/2026**
Develop the malware detection result page of the application (Final front-end page in the application)	**25/2/2026 - 11/3/2026**
Demo Application	**11/3/2026 - 25/3/2026**
Deploy Application (If feasible)	**1/3/2025 - 5/3/2025**
Develop a landing webpage for the application	**25/3/2026 - 30/3/2026**

3) Effort Martrix

Task	Start and Completion Dates	Long Nguyen (Hours of Effort)	Luqman Al Hasni (Hours of Effort)
Research LLM models that could be utilized as an infrastructure and a starting point of the LLM models to be built.	10/9/2025 - 29/9/2025	Primary 3 Hours	Secondary 2 Hours
Develop the application home screen.	22/10/2025 - 1/11/2025	Primary 4 Hours	Secondary 2 Hours
Research how to utilize Ghidra as a plug-in.	1/10/2025 - 15/1/2025	Secondary 2 Hours	Primary 4 Hours
Preprocess and refine the datasets that	8/10/2025 - 1/11/2025	Primary 4 Hours	Secondary 2 Hours

will be utilized in the application to train the LLM models.			
Integrate LLM fintuned model	**19/11/2025 - 21/11/2025**	**Primary 6 Hours**	**Secondary 4 Hours**
Train LLM model to analyze executable files and decompile them into C-Code.	**21/10/2025 - 1/12/2025**	**Secondary 2 Hours**	**Primary 6 Hours**
Integrate Ghidra as a plug-in to disassemble the executable files into	**1/11/2025 - 22/1/2025**	**Secondary 2 Hour**	**Primary Secondary 4 Hours**

Assembly-code.			
Test the models analysis of C code and Assembly code.	**22/11/2025 - 19/12/2025**	**Primary 5 Hours**	**Secondary 2 Hours**
Document the analyzation performance of the built models in comparison to other recent models that target the same criteria.	**7/1/2026 - 28/1/2026**	**Secondary 2 Hour**	**Primary 5 Hours**
Develop the analyzation page of the application that	**28/1/2026 - 18/2/2026**	**Secondary 2 Hours**	**Primary 3 Hours**

showcases the analyzation of both C and Assembly codes.			
Build the malware detection back-end part of the application (still in progress in terms of applicable tools) **(Final backend part of the application)**	**28/1/2026 - 25/2/2026**	**Primary 4 Hours**	**Secondary 2 Hours**
Develop the malware detection	**25/2/2026 - 11/3/2026**	**Secondary 4 Hours**	**Primary 6 Hours**

result page of the application (Final front-end page in the application)			
Demo Application	11/3/2026 - 25/3/2026	Primary 4 Hours	Secondary 3 Hours
Develop a landing webpage for the application	25/3/2026 - 30/3/2026	Secondary 2 Hours	primary 4 Hours

Current Hours:

- **Luqman: 49 Hours**
- **Long: 46 Hours**