**PROJECT PROPOSAL**

**TITLE:**

**BLOCK CHAIN TECHNOLOGY FOR SECURE DATA SHARING IN CLOUD COMPUTING ENVIRONMENTS**

*• Team Members*

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# • Faculty Coach Name

**Robert A. Gilliland**

* *Project description:*

The increasing reliance on cloud computing necessitates robust data security measures, as centralized cloud storage raises concerns about data breaches and unauthorized access. Blockchain technology, with its inherent decentralization, immutability, and transparency, presents a promising solution for secure data sharing in the cloud. This case study investigates the potential of blockchain in enhancing data security within cloud environments. We explore the key characteristics of blockchain and their relevance to data sharing, analyze existing research and applications, and identify the challenges and limitations associated with this approach. Furthermore, we propose a potential framework for implementing blockchain-based secure data sharing in the cloud and discuss its potential benefits and drawbacks. This study aims to provide valuable insights into the feasibility and potential of blockchain technology for securing data in cloud-based environments.

* Project plan/timeline

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| **Phase** | **Description** | **Duration** |
| Research & Analysis | Study existing solutions and identify gaps | Weeks 1-2 |
| Design Framework | Develop a conceptual framework for integration | Weeks 3-4 |
| Implementation | Build a prototype based on the designed framework | Weeks 5-8 |
| Testing & Evaluation | Test the prototype for security and performance | Weeks 9-10 |
| Final Report & Presentation | Compile findings and prepare presentation | Weeks 11-12 |

**Faculty coach approval email:**

