Internship Report

Name – Kaushik Pattipati
Duration – May 20 to August 23 (3 months)
Position – IT Architecture Intern at Ameritas

University of Nebraska Omaha

Agenda

1. Internship Goals
2. My Role in Goal Achievement
3. Relevance of Academic Background in Internship
4. Conclusion

INTERNSHIP GOALS

- Intern Expectations
  - Show a willingness to learn quickly, adapt to new situations, and take initiative in various projects and tasks.
  - Work effectively with team members and other departments, contributing positively to group efforts and respecting diverse perspectives.
- Organizations Expectations
  - Assist maturing the architecture competency.
  - Help gather and analyze information about current systems and technologies. Which involves reviewing requirements, documenting existing architectures, and understanding how different technologies work together.

Activities Performed

- Assisted in creating and maintaining architectural catalogues and connections using Abacus, ensuring accurate documentation of system components and their relationships.
- Collaborated with cross-functional teams to categorize applications used within the enterprise into "Authorized" or "Unauthorized" categories, ensuring compliance with organizational policies and security standards.
- Developed POCs for API integrations at the enterprise level, demonstrating feasibility and guiding implementation strategies.

Activities Performed

- Technology Used –
  - Abacus
  - Python scripting
  - Postman
- Made informed decisions regarding the technology stack for automation scripting, considering factors such as **compatibility**, **performance**, and **scalability**, led to the development of an automation library that streamlined API integration processes.

Relevance of Academic Background in Internship

- **Software Specification and Design (SSD)** : SSD provided a robust understanding of application design principles, which enabled me to quickly grasp and effectively work with architectural diagrams in Abacus.
- **Data Warehousing and Data Mining (DWDM)** : Concepts such as data storage techniques, ETL (Extract, Transform, Load) operations, and file structures, were instrumental in understanding the architecture catalogues and connections at an enterprise level.
- **Design Analysis of Algorithms (DAA):** Concepts from DAA, such as HashMap and Graphs, were essential in mapping how various applications interact and are related within the system.
- An Exception course
  - A course focused on **interpersonal and people management** skills could have further enhanced my ability to communicate and collaborate effectively with team members and stakeholders.

CONCLUSION

- During the summer, working as an intern I noticed that my capacity to think more and be more versatile in situations made me realize that I had become a better version of myself, and I believe that this noticeable exponential learning curve has made this internship successful.
- Working as an IT architect intern was a successful internship because it helped me grow on how I arrive at a problem to solve which is fundamental of computer science.
- Collaborating with architects at senior management level has expanded my learning curve exponentially. They made me realize the importance of understanding different perspectives and fortune thinking.