SMART Goals - Ramyan Chelvanathan

Competency 1: Critical Thinking and Problem Solving.

- Goal 1: Develop the ability to identify and analyze software bugs efficiently.

    - To enhance my problem-solving skills, I aim to proficiently identify and resolve software bugs throughout my co-op term. This involves utilizing tools such as Postman for API testing as well as regression testing to resolve bugs. I plan to successfully debug and resolve at least 3 new software bugs per week, tracking my progress to ensure I meet this target consistently. By quantifying the number of bugs resolved, I can objectively measure my improvement in bug identification and resolution over time. To achieve this goal, I will actively seek opportunities to practice debugging techniques, attend standups, study relevant documentation, and seek mentorship from experienced developers. With dedicated effort and guidance, I am confident in my ability to attain proficiency in this critical aspect of software development. Enhancing my ability to identify and resolve software bugs directly contributes to the overall quality and efficiency of software development projects. It allows me to deliver higher-quality code and products, which is essential for success in the software development industry. I aim to achieve proficiency in debugging within the two months of the co-op term, setting a clear deadline to focus my efforts and track my progress effectively.

- Goal 2: Enhance proficiency in algorithmic thinking and optimization techniques.

    - To improve my algorithmic thinking skills, I will dedicate time to solving algorithmic challenges on platforms like LeetCode or HackerRank, focusing on progressively challenging problems. I aim to solve at least 3 algorithmic problems per week, with increasing difficulty, to gauge my progress and proficiency in algorithmic problem-solving. I will allocate regular time for algorithm practice sessions, participate in coding competitions such as an upcoming Hackathon at my workplace, and seek feedback from peers and mentors to refine my problem-solving strategies. Strong algorithmic skills are essential for writing efficient and optimized code, which is crucial in software development for creating scalable and high-performance applications. By the end of the co-op term, I aim to achieve a rating of at least 1000 on competitive programming platforms, as well as placing in the Top 3 of our upcoming Hackathon at work indicating a significant improvement in my algorithmic proficiency and problem-solving abilities, as well as teamwork skills. This time-bound target provides a clear timeline for achieving my goal and motivates me to stay focused on my progress throughout the term.

Competency 2: Effective communication skills

- Goal 1: Improve technical documentation skills by contributing to project documentation

    - In order to enhance my technical documentation skills, I will actively contribute to project documentation during my co-op term. This involves drafting documentation for new features, APIs, or system architecture changes, ensuring clarity and completeness. I will set a measurable target of completing documentation tasks for assigned projects before the end of each sprint, seeking feedback from team members to ensure quality. To achieve this goal, I will study style guides, and seek guidance from experienced technical writers within the organization. Effective technical documentation is essential for facilitating collaboration and knowledge sharing within the development team, thus directly impacting project success. By actively engaging in documentation tasks, I aim to improve my communication skills and contribute to the overall efficiency of the development process. This goal is relevant to my professional growth as a software developer and aligns with the expectations of today's business leaders. It is time-bound, with regular deadlines set by project sprints, providing a clear framework for achieving and measuring progress.

- Goal 2: Enhance verbal communication skills during team meetings and standups

    - To strengthen my verbal communication abilities, particularly during team stand-ups, I aim to actively improve my clarity and effectiveness in conveying information and ideas. This involves practicing delivering concise updates and explaining technical concepts with confidence and coherence during these sessions. I will set specific targets, such as confidently presenting project updates and technical discussions in team meetings within the first two months of the co-op term, to measure my progress and proficiency. Achieving this goal requires active participation in daily stand-ups, sprint retrospectives, and design reviews, actively seeking opportunities to contribute verbally and receive feedback. Effective verbal communication fosters better team collaboration and ensures that everyone is on the same page regarding project progress and objectives. By enhancing my communication skills, I can contribute more effectively to team cohesion and project success. This goal is relevant to my professional development as a software developer and aligns with the expectations of today's business leaders. It is time-bound, with a specific timeframe set for achieving improved verbal communication skills during team meetings and stand-ups.

Competency 3: Agility and Adaptability

- Goal 1: Learn to work with new technologies or frameworks quickly

    - To adapt to the dynamic nature of the software development industry, I aim to develop the ability to quickly learn and work with new technologies or frameworks

during my co-op term. This involves actively seeking opportunities to familiarize myself with emerging technologies used in the project, such as attending workshops or online courses. I will set measurable targets, such as successfully implementing a feature using a new technology or framework each week to gauge my progress and proficiency. Some new technologies and frameworks I aim to learn during this term are Postman for testing, Angular for front end development, and Spring boot on the backend side of development. Achieving this goal requires a proactive approach, including self-study, hands-on experimentation, and seeking guidance from experienced developers within the organization. Adapting to new technologies ensures relevance and competitiveness in the industry, making this goal personally meaningful and motivating. By gaining proficiency in new technologies, I can contribute more effectively to project success and future career opportunities. This goal is relevant to my professional development as a software developer. It is time-bound, with specific milestones set for mastering new technologies within the duration of the co-op term.

- Goal 2: Improve adaptability in fast paced environment

    - In order to thrive in the fast-paced environment of software development, I aim to enhance my adaptability skills during my co-op term. This involves embracing changes in project requirements or priorities with a positive attitude and effectively adjusting my approach accordingly. I will set specific targets, such as successfully pivoting project focus in response to evolving business needs without compromising quality or deadlines, to measure my progress and proficiency. I can measure these targets by talking with my mentors about how to approach them as efficiently as possible and then taking action. Achieving this goal requires practicing resilience and flexibility through regular retrospectives and team discussions on adapting to change. Adapting to new circumstances ensures smooth project execution and fosters a culture of innovation within the team. By demonstrating improved adaptability, I can contribute to project success and build valuable skills for future career opportunities. This goal is relevant to my professional growth as a software developer as adaptability to changing business needs is something that is expected and will slow progress if it is not learned properly. It is time-bound, with regular opportunities for assessing and refining adaptability skills throughout the co-op term.