

Intern Requirement

No. of students required	1
Preferred Discipline	<ul style="list-style-type: none">• Computer Engineering• Computer Science
Prerequisites/ Skills Required	<ul style="list-style-type: none">• Knowledge in C/C++ programming• Self-motivated and willing to work independently• Knowledge in parallel programming would be an added advantage

Project Details

Title	Optimization of Bloom Filter Algorithm
Overview/Background	<p>The bloom filter algorithm is used in a wide range of applications, including pattern matching, network packet analysis tools and databases. To achieve efficiency, the algorithm can be optimized for performance using different hash functions, as well as parallelization (e.g. OpenMP, Pthread libraries) and 64-bit techniques.</p> <p>The intern has to achieve a balance between speed and accuracy while attempting to optimise the algorithm.</p>
Objectives/Scope/ Deliverables	<ul style="list-style-type: none">• Implement an optimized bloom filter algorithm• Benchmark the performance of the optimized bloom filter implementation
Project Duration	6 months