4th year CS project topics - 2024

1. Comparative performance evaluation of topological MIMD architectures having domain specific CPU (eg TPU, GPU) nodes
2. Probable solutions to the serverless cold start problem
3. Improving a BFT paxos consensus solution: use of randomization or as a pluggable module in a lightweight distributed ledger
4. Mixed consistency distributed transactional programming (MiXT) – Checking Turing completeness in an adversarial environment with flexible memory consistency
5. Replacing PSO particles with RL agents for real time distributed optimisation or, as a practical implementation using population protocols
6. Augmenting numerical models with ML for high resolution extreme weather forecasting

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