

CSE3000 Weekly Progress Presentation

WEEK 2

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What have I done so far?

linear in the
replicas

linear view-change
+
optimistic responsiveness

Hotstuff

→ leader-based Byzantine fault-tolerant replication protocol for the partially synchronous model

→ 3 phases → allow leader to pick the highest Q it knows of.

→ supports frequent succession of leaders

Progress from last week

1. **Finished supporting reading material (mainly with focus on Hotstuff and DAMYSUS)**
2. Completed the Final Research Plan.
3. Explored the Hotstuff and DAMYSUS repositories.
4. Struggled to run Hotstuff, but then learned Docker and managed to use the Docker created for DAMYSUS in order to also run the Hotstuff repository.
5. Created a skeleton code base for Hotstuff in Python.
6. Attended Responsible Research session.
7. Added the References gathered in the first week to the paper.



What is next?

Goals for the week onwards

1. Complete **Background** and **Related work** sections.
2. Start on **Problem description** section.
3. Shape the idea of weighted voting in the context of streamlined algorithms.
4. Try applying it on the already created simplified version of Hotstuff in Python.



My Questions