RELIABILITY IN MODERN CLOUD SYSTEMS

Summer 2025

LOGISTICS

Dates: 14th April, 23rd April – 16th July

No lecture on 14th May

Time: Every Wednesday 2.15pm-3.45pm

Location: Room 005, E1 5

Course website: https://cms.sic.saarland/cldrel_25/

MEET THE STAFF

Vaastav Anand

Antoine Kaufmann

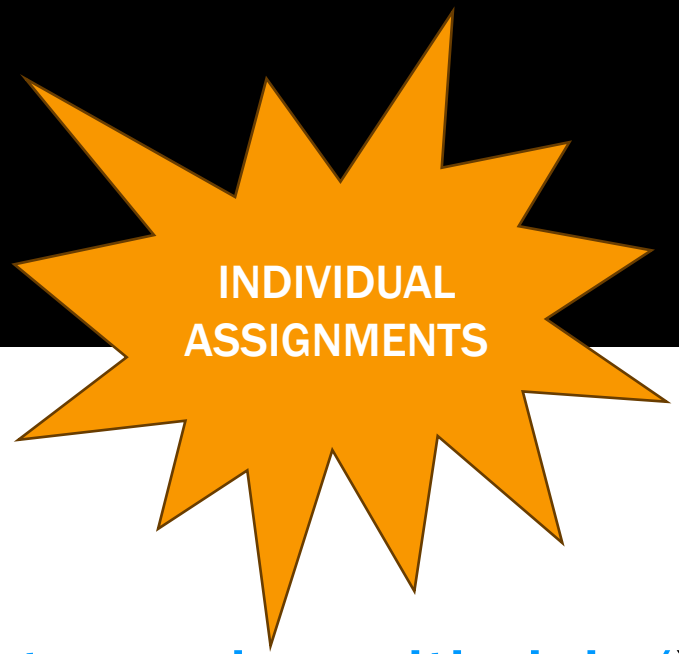
Matheus Stolet

COURSE FORMAT

Each meeting is divided into two parts

1. Lecture Part
   - Instructors will introduce a topic
   - Slides posted on website after lecture
   - Assigned reading (research paper/blog post) on that topic
2. Discussion Part
   - Student led discussion on the topic from previous week
   - Emphasis on the assigned reading and advanced themes

GRADING



Participating in Discussions: 5%

Four assignments - Blueprint (https://blueprint-uservices.github.io/)

- Assignment 1: Implement a microservice application (10%)
- Assignment 2: Observability and Traces (20%)
- Assignment 3: Reproducing Metastability Failures (25%)
- Assignment 4: Open-ended Reliability Project (40%)

OPEN ENDED PROJECT

Assignment 4: Open-ended Reliability Project (40%)

- Project must be approved by the instructors
- Project must integrate Blueprint
- Grade based on final demo and presentation
- A selection of potential topics listed on the website (Coming Soon)
  - 1st come 1st serve
  - Projects will be unique among students

OFFICE HOURS

Every Monday from April 21st

Time: 2-3pm

Location: MPI-SWS, E1 5, Room 328

Contact by email: vaastav@mpi-sws.org

BACHELOR/MASTERS THESIS

Members of the OS group regularly supervise students

Key Requirement: Doing well in this course

Contact members for potential theses topics