

How to tap the minds of the briahtest



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An experience report on integrating research software engineering into a software testing course at Blekinge Institute of Technology



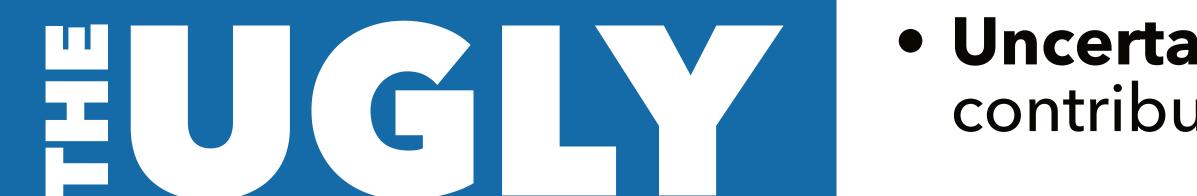
- Introducing hands-on testing and quality assurance techniques for software systems
- 40 students from the SE and Al B.Sc. programmes
- Each group (4-5 students) must implement a minimum test suite for a CI-pipeline and choose a project focus (e.g., performance testing or algorithmic verification).



- Simulation of information diffusion in code review at Microsoft, Spotify, and Trivago
- Implementation Dijkstra's algorithm for time-varying hypergraphs in Python
- Grew a comprehensive test suite with unit and integration tests to catch regression bugs in the future and fuzzing to catch memory-corruption and safety bugs
- Improved documentation to provide context and lower the barrier to the project
- Minimized code dependencies and OS/hardware requirements to make it available for all
- Brought students closer to SE research
- Overall positive student feedback



- Substantial efforts (upfront and continous) for improving documentation context and minimizing dependencies and requirements
- No direct integration of student code into the project
- Some students felt overwhelmed



 Uncertainty about intellectual property of code contributions from students to the project