Optimistic Deployment for Continuous Delivery

Collaborne is a fully funded enterprise software startup (SaaS) based in Amsterdam. Collaborne offers an exciting graduation topic in cutting edge Software Engineering.

Background
Traditionally, software vendors created 2-3 releases per a year. Cloud-based services (SaaS) are replacing this slow development process by creating new releases multiple times per day, or even adopted continuous deployments where each code commit goes straight into production.

This new way of developing software makes the traditional testing phase obsolete: releasing multiple times per day doesn’t allow any longer for multi-week or even multi-month manual testing. Instead of intensive proactive testing before releasing, cloud-based companies increasingly release changes to a small portion of their users, closely monitor its impact, and then roll it out to more users - or roll the changes back if the expected outcome is not achieved.

Companies like Facebook, Baidu, or Booking.com have proven that multiple releases per day are not only feasible on scale but also dramatically accelerate the pace of innovation delivery to clients.

Goal
Your goal is to develop and implement a methodology how to gradually roll out new code into production, monitor technical and business signals, and escalate potential issues to the right developers.

The topic can be tailored to your interest and prior knowledge. Your passion for the topic is for us as important as the impact that your work delivers to Collaborne’s users.

Company
Collaborne is a labor of love for us. The idea was born from an opportunity common to many organizations. We realized that despite having smart and competent people, organizations struggled to leverage the full potential of their human capital. Rigid processes, ineffective information flows, and unfriendly systems hindered the individual and collective performance.

The opportunity to vastly increase team productivity by empowering people to get work done better and faster is universal to many organizations in the world. And so Collaborne was started, with a mission to empower every person to become more productive, help teams to achieve greater things, and propel organizations to leapfrog competition.

Collaborne is seeking smart, enthusiastic, and driven students who want to be part of reinventing how business information is accessed and work is done in thousands of organizations across the world. We commit to providing all the necessary resources that will make your thesis a success. We will involve you fully in our team and would love to have you with us also after your thesis!

To apply for this thesis topic, please email your CV to ronny@collaborne.com (Ronny Roeller)