Project proposal

Photo book layout generation

Making a photo book is a time-consuming task, and one of a subjective nature. First you gather all your photos, then you sift through them to decide which you want to put in your book. Now you have a pile of photos and a book of white pages. How to fill the pages?

Are you a programmer with skills in algorithms and data structures, and do you want to learn how to develop these further in a production environment? You can help us improve our layout generation system!

You will do research in some of the following fields:
- Computational geometry
- Tree algorithms
- General graph algorithms
- NP optimization problems
- Distributed computing

Interest in most of these fields is a must, and familiarity with some is a big plus. The parts of our system you will touch on most are written in C++ and Python. Strong knowledge of object-oriented programming is a must. Experience with Python is desired.

Because we run these algorithms in a heavily integrated environment, you will also be exposed to software engineering technologies and techniques, such as:
- Git workflow
- Continuous integration/deployment
- Unit and integration testing
- Agile software development
- Cloud computing (Amazon Web Services)

You are not required to know anything about the above, but you should be willing to learn about these topics.

About ReSnap

ReSnap is the 4th fastest growing tech company of The Netherlands, based in the city center of Nijmegen. We developed an AI that can predict someone’s “best” photos and automatically generate a photo book. Best is not simply an aesthetics score, but the real emotional value of a photo. Our consumer solution is the easiest photo book solution worldwide. Come join us for this internship and work together to make a worldwide impact!