Day with industrial partners

About me

- Doctorate at Faculty of Informatics, MU

- Research Coordinator at Y Soft

- linkedin.com/in/AndriyStetsko

About Y Soft

- We build a **distributed system** that is applied in domain of printing scanning and copying

- We deal with **security**, **availability**, **scalability**, and **efficiency** issues

- **We have what to learn and we have what to share with others**

Y Soft

Innovate product
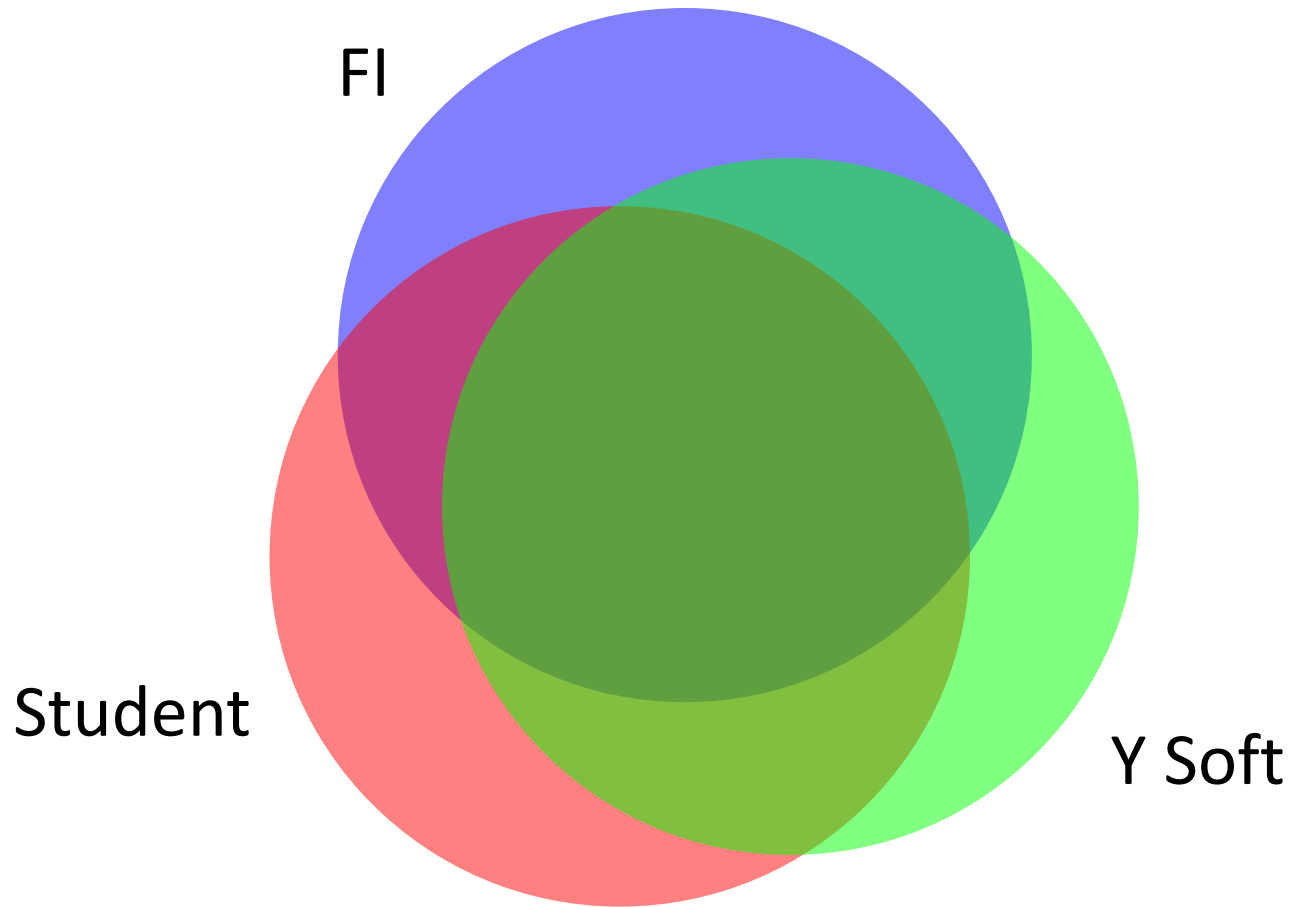
Innovate methodology

Find employees

FI

Teach

Research

Find employees

Student

Get knowledge

Get experience

Get job

Cooperation = working together for **mutual benefit**

FI

Student

Y Soft

We are trying to maximize this intersection

What do we do to achieve that?

- **We are doing our best to identify topics that are interesting for all involved**

- We dedicate our time and money to provide technical and financial support

- We are doing our best to find supervisors that work in field of topic

Technical consultants

Supervisors

Research coordinator

Students

Security

- 9 students
  - Microsoft SDL
  - PDF security
  - Metaexploit
  - Xamarin/Android security
  - Coverity
  - Sqlmap, W3AF
  - FindBugs, FxCop
  - Protocol verification
  - Fuzzers
- Regular group meeting (every two weeks)
- Open part-time position [vulnerability researcher]
- Contact me if you have any interesting topic in mind

Distributed systems

- Datastore Riak
- Distributed locks

Mobile platforms

- Testing Techniques for Mobile Device Applications
- Cross-platform development of smartphone application with:
  - RhoMobile
  - Telerik
  - PhoneGap (Apache Cordova)
  - Kivy

Other available topics

- Bachelor thesis:
  - Load balancing using HAProxy
- Master thesis:
  - Booking system for multifunctional devices
  - Deployment of large scale enterprise applications
  - Code Mutation Analysis
  - Optimization of JVM settings for application performance
  - Online analytical processing for open source relational and NoSQL databases

Statistics – theses

Type	# of defended	# of running	# of open
Bachelor	17	6	3
Master	15	9	11

In 2013-2014, there were defended:
- 9 bachelor theses (4 A + 2 B = 66%)
- 8 master theses (4 A + 3 B = 87%)
- 3 FI MU Dean's Awards (18% of theses)

How can you get involved?

Find topic in IS or contact me

Statistics – student projects

Finished	Running	Open
2	2	2

Position s that will be open this spring
- 1 position in field of distributed systems
- 1 position in field of security
- Regular financial reward

How can you get involved?

Take part in Competition for talented students
Win the competition
Get paid position in FI laboratory

Statistics – part-timers

Finished	Running	Open
2	7	7

How can you get involved?

Select thesis topic

Show promising results

Get part-time job

Statistics – supervisors and consultants

- Supervisors
  - 14 in total since 2008 (3 our employees)
  - Currently 9 (3 our employees)
- Consultants (all our employees)
  - 14 in total since 2008
  - Currently 13

- In some cases, supervisor = consultant
- Level of involvement is different

Success stories

- Petr Bartoň
  - Created a prototype of SafeQ demo during his bachelor thesis
  - Got part-time job
  - Currently, he works on production version
  - 1st version was recently released
- Michal Rajčan
  - Extended a tool that is internally used by our QA
  - Got part-time job
  - Currently, he is adding additional features

YSOFT VENTURES

$3 million invested

OrganizeTube   COMPRIMATO   videoflot
It's in your hands.

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Thank you for your attention
Visit us at our stall

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