Jan Papoušek

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🔗 *www.github.com/papousek*

Education

2011

Master's degree programme, *Faculty of Informatics Masaryk University*, Brno.
Field of study: Parallel and Distributed Systems

2008
2011

Bachelor's degree programme, *Faculty of Informatics Masaryk University*, Brno.
Field of study: Parallel and Distributed Systems

Parallelization of Methods for Dynamic System Analysis Using CUDA

Bachelor Thesis

The thesis presents a procedure of the parallelization a numerical simulation over a large amount of initial points. Methods for numerical simulations have been implemented so that they can be run on a graphics card while using the CUDA technology through the Java interface.

☐ www.is.muni.cz/th/325494

Academic Experience

2010

Systems Biology Laboratory, *Faculty of Informatics Masaryk University*, Brno.
Development of a tool for analysis of dynamic systems

☐ Botanická 68a, 602 00 Brno, Czech Republic ☐ +420 549 495 990 ☐ sybila@fi.muni.cz ☐ sybila.fi.muni.cz

Parasim – Tool for Paralell Simulations and Verification

Research Project

The tool analyzes dynamic systems specified in terms of ordinary differential equations. As a feature distinct from existing tools used for dynamic systems analysis and temporal properties monitoring, the tool is based on a modular architecture. This facilitates optimization and parallelization of individual modules and algorithms employed for analysis, as well as implementation of additional functionality.

☐ www.github.com/sybila/parasim

2009
2011

Teaching Assistant, *Faculty of Informatics Masaryk University*, Brno.
Java, Algorithm Design II and Introduction to Functional Programming

☐ Botanická 68a, 602 00 Brno, Czech Republic ☐ +420 549 491 810 ☐ info@fi.muni.cz ☐ www.fi.muni.cz

Working Experience

2011

Quality Assurance Associate, *Red Hat Czech, Ltd.*, Brno.
Development of automated tests for RichFaces project, contributing to Arquillian project

☐ Purkyňova 99, 612 45 Brno, Czech Republic ☐ +420 532 294 111 ☐ brno@redhat.com ☐ www.cz.redhat.com

Skills

programming   Java[†], PHP[†], Bash[†], Scala[*], Haskell[*], R[*], Python[*], C for CUDA[*]

technologies   GIT[†], SVN[*], MySQL[†], LaTeX[†], Beamer[†], Linux[†], Maven[†], Arquillian[‡], Selenium[†]

theory   formal verification, algorithm design, parallel computing

[*]familar with
[†]active usage
[‡]contributor

Online Courses

Computing for Data Analysis
☐ https://www.coursera.org/course/compdata

Functional Programming Principles in Scala
☐ https://www.coursera.org/course/progfun

Web Intelligence and Big Data
☐ https://www.coursera.org/course/bigdata

Algorithms, Part I
☐ https://www.coursera.org/course/algs4partI

Projects

2008

Leganto, *co-founder and main developer*.
Web page for managing read books and finding similar books
☐ leganto.cz

2008
2012

KSI, *co-organizer (participant previously)*.
Correspondence Seminar from Informatics, under the auspices of Faculty of Informatics MU.
☐ ksi.fi.muni.cz

2010
2012

Lužánky, *course instructor*.
Teaching courses focused on programming in Java and webdesign at leisure time center
☐ www.luzanky.cz

2009
2012

Intersob, *co-organizer and developer of evaluation system*.
City game focused on high school students, under the auspices of MU.
☐ ganymed.math.muni.cz/intersob

2009
2011

Interlos, *co-organizer and developer of evaluation system*.
Online programmer contest, under the auspices of Faculty of Informatics MU
☐ interlos.fi.muni.cz

2009
2011

K-SCUK, *co-organizer*.
One-week long event for participants of correspondence seminars MU.
☐ kscuk.zimodej.cz

Languages

Czech	**Native speaker**
English	**Intermediate**

Interests

Games	Role playing games, board games, cipher games.
Sport	Squash, frisbee.
Books	Fantasy, sci-fi.