

Jan Papoušek

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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 Parallel 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[†], L^AT_EX[†], Beamer[†], Linux[†], Maven[†], Arquillian[‡], Selenium[†]

theory

formal verification, algorithm design, parallel computing

*familiar 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

KSI, *co-organizer (participant previously)*.

Correspondence Seminar from Informatics, under the auspices of Faculty of Informatics MU.

□ ksi.fi.muni.cz

2010

Lužánky, *course instructor*.

Teaching courses focused on programming in Java and webdesign at leisure time center

□ www.luzanky.cz

2009

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

Interlos, *co-organizer and developer of evaluation system*.

Online programmer contest, under the auspices of Faculty of Informatics MU

□ interlos.fi.muni.cz

2009

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.