

Filip Nikšić

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Scientific Interests

- Formal methods
- Software verification and synthesis
- Modal logics
- Functional programming languages

Education

10/2009–10/2011 **Department of Mathematics, University of Zagreb**
Enrolled in a doctoral program in mathematics

7/2004–10/2009 **Department of Mathematics, University of Zagreb**
Dipl. ing. (4-year degree) of Mathematics (profile: Computer Science)
Thesis: *Propositional Dynamic Logic*
GPA: 4.696 out of 5.00

Other Education

Seminars, Summer Schools and Courses:

- Introduction to Artificial Intelligence, online course by S. Thrun and P. Norvig, Oct–Dec 2011
- Machine Learning, online course by A. Ng, Oct–Dec 2011
- European Summer School in Logic, Language and Information, Slovenia, 2011
- Model theory and applications, three-day course by I. Tomašić, Croatia, 2010
- Advanced set theory, five-day course by M. Džamonja, Croatia, 2009
- Technology of e-Science: Developing applications on a computer cluster and grid, two-day seminar, Croatia, 2007

Work Experience

04/2010–*present* **IN2 d.o.o., Zagreb**
Development of an application system for investment/pension funds. Analysis, tuning and implementation of financial algorithms for portfolio analysis, risk management, hedging, performance attribution; graphical data representation etc. Technologies: Oracle DB (SQL, PL/SQL), Java (Spring Framework) and Adobe Flex.

Teaching Experience

03/2008–09/2009 **Department of Mathematics, University of Zagreb**
Demonstrator of courses: Set theory (Spring 2008), Introduction to parallel computing (Fall 2008), Application of parallel computers (Spring 2009).

09/2002–06/2005 **Informatics Club NET, Ivanić-Grad**
Preparation of high school students for competitions in informatics.

Other Experience

09/2002–12/2006 **PlayMath Journal, Zagreb**
I participated in the founding and editing of the high school mathematical journal PlayMath. My main responsibility was the web edition.

03/2004–04/2004 **Croatian Mathematical Society (HMD), Zagreb**
As part of a five-member team, I participated in the preparation for the publication of the book *Matematička natjecanja u Republici Hrvatskoj 1992.–2006.*, ed. Zdravko Kurnik, HMD, Zagreb, 2007.

Technical Skills

Operating systems: GNU/Linux, Windows

Programming languages: C/C++, Java, PL/SQL, ActionScript (Flex)

I am interested in functional programming languages like Haskell.

Databases: Oracle DB, MySQL

Typesetting: \LaTeX

Competitions

- Notable awards:
- 1st place (BASIC/Pascal), Croatian National Competition in Informatics, 1999
 - 2nd award, Croatian National Competition in Mathematics, 2000
 - 2nd place (Logo+BASIC/Pascal), Croatian National Competition in Informatics, 2000
 - 1st place (Junior Division), USA Computing Olympiad (Fall Internet Contest), 2001
 - 3rd place, Croatian Programmers' League, 2004
- Participations:
- Internet Problem Solving Contest (<http://ipsc.ksp.sk>)
Regular participant since 2001. Highest ranked on the IPSC 2010 with M. Horvat and H. Torbašinović as Fruity Fajitas (16/30 points, #168 out of ~750 teams).
 - Various other contest participations (Facebook Hacker Cup, Google Code Jam, PL/SQL Challenge, ...).

Other

Foreign languages: Active knowledge of English.

Publications

- [1] F. Nikšić, Svijet matrica, *PlayMath*, no. 2, pp. 11–15, 2003.
- [2] F. Nikšić, Traženje najkraćeg puta, *PlayMath*, no. 3, pp. 5–8, 2003.
- [3] F. Nikšić, M. Horvat, Mozgalica ŠEST STOTICA, *Matka*, no. 44, 2003.
M. Horvat, F. Nikšić, Igra šest stotica, *PlayMath*, no. 16–17, pp. 18–20, 2008.

Ivanić-Grad, July 10, 2012