

Karl Palmskog
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CURRICULUM VITAE

Karl Palmskog

Profile

My professional and research interests concern the construction of correct, secure, and efficient computer programs, and reasoning about such programs formally; in particular distributed programs. To this end, I take a broad interest in programming languages, computer-assisted program verification, distributed systems, and algorithms.

Education

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| Feb 2009 - Nov 2014 | Ph.D., Computer Science , 240 ECTS credits, KTH Royal Institute of Technology, Stockholm. Research on distributed systems and programming languages. Chairman of the Ph.D. student council at the School of Computer Science and Communication during 2013. |
| Aug 2001 - May 2007 | M.Sc., Computer Science and Engineering , 270 ECTS credits, KTH Royal Institute of Technology, Stockholm. Specialization in formal design techniques. Master's project at Ericsson AB: "Verification of the Session Management Protocol". |
| Mar 2002 - Jan 2003 | Military service in the Swedish Navy. |

Work Experience

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| Feb 2009 - Jan 2014 | Teacher , KTH Royal Institute of Technology, Stockholm. Lecturer, teaching assistant, and lab assistant in several computer science courses. Developed labs and other course material. |
| Feb 2007 - Jan 2009 | Developer , Jaycut AB, Stockholm. Co-developed a platform for online video editing, using mostly Ruby and the Ruby on Rails web application framework. |
| Feb 2007 - Jan 2009 | Developer , Edulab AB, Stockholm. Development of a web-based system in PHP for knowledge certification. |
| Dec 2006 - Jan 2007 | Lab assistant , KTH Royal Institute of Technology, Stockholm. Lab assistant in computer science courses. |
| Jun 2005 - Sep 2005 | Developer , Vocab AB, Kista. Development of a natural-language processing module for J2EE-based VocabTool, a tool for learning languages. |

Language Skills

Swedish	fluent (native language)
English	fluent
German	advanced
French	basic

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Programming Skills

Advanced	Ruby, Java, C, SQL
Intermediate	OCaml, C++, shell script
Basic	Haskell, Prolog, MATLAB

Voluntary Work

Aug 2010 - May 2014	Maintenance of the Ruby on Rails web application I developed for the student-targeted video game development competition Swedish Game Awards (SGA).
Dec 2004 - Aug 2010	IT lead in Excitera, the entrepreneurship association at KTH. I headed the development and administration of the association's IT support systems and technical infrastructure.
Aug 2004 - Aug 2010	IT lead and web developer in the team running SGA.
Jun 2005 - Dec 2006	Board member and secretary in Excitera.

Publications

- [1] M. Dam and K. Palmskog. Efficient and fully abstract routing of futures in object network overlays. In *Proceedings of the 2013 Workshop on Programming Based on Actors, Agents, and Decentralized Control*, AGERE! '13, pages 49–60, New York, NY, USA, 2013. ACM.
- [2] M. Dam and K. Palmskog. Location independent routing in process network overlays. In *Parallel, Distributed and Network-Based Processing (PDP), 2014 22nd International Conference on*, pages 715–724. IEEE, Feb 2014.
- [3] M. Dam and K. Palmskog. Location independent routing in process network overlays. *Service Oriented Computing and Applications*, 2014. To appear.
- [4] Y. Ismailov, K. Palmskog, M. Widell, P. Arvidsson, and Y. Wang. Session Layer Resurgence: Towards Mobile, Disconnection- and Delay-Tolerant Communication. In *Proceedings of 4th European Conference on Universal Multiservice Networks*, pages 337–345. IEEE, Feb. 2007.
- [5] K. V. Jónsson, K. Palmskog, and Y. Vigfússon. Secure distributed top-k aggregation. In *Proceedings of IEEE International Conference on Communications (ICC)*, pages 804–809. IEEE, June 2012.
- [6] K. Palmskog, M. Dam, A. Lundblad, and A. Jafari. ABS-NET: Fully decentralized runtime adaptation for distributed objects. In M. Carbone, I. Lanese, A. Lluch Lafuente, and A. Sokolova, editors, *Proceedings 6th Interaction and Concurrency Experience*, Florence, Italy, 6th June 2013, volume 131 of *Electronic Proceedings in Theoretical Computer Science*, pages 85–100. Open Publishing Association, 2013.
- [7] K. Palmskog, A. Gonzalez Prieto, C. Meirosu, R. Stadler, and M. Dam. Scalable metadata-directed search in a network of information. In *Proceedings of Future Network & Mobile Summit*, pages 1–8. IEEE, June 2010.