

Karl Palmskog  
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# CURRICULUM VITAE

Karl Palmskog

## Profile

Analytical computer science researcher, with interests in theoretical aspects of software development and formal design/analysis of distributed systems.

## Education

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| Feb 2009 -          | Studies at KTH Royal Institute of Technology toward a Ph. D. degree in Computer Science. Conducting research on distributed algorithms.   |
| Aug 2001 - May 2007 | Studied at KTH Royal Institute of Technology for an M. Sc. degree in Computer Science and Engineering, with a 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.   |
| Aug 1998 - Jun 2001 | Studied at Jakobsbergs Gymnasium for a Science program diploma.   |

## Work Experience

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| Feb 2007 - Jan 2009 | JayCut AB, Stockholm. Development of a platform for online video editing.  |
| Feb 2007 - Jan 2009 | EduLab AB, Stockholm. Development of a web-based system for knowledge certification and validation.                            |
| Dec 2006 - Jan 2007 | School of Computer Science and Communication, KTH Royal Institute of Technology, Stockholm. Lab assistant in computer science. |
| Jun 2005 - Sep 2005 | Vocab AB, Kista. Development of a module to J2EE-based VocabTool, a tool for learning languages.                               |

## Computer Skills

Formal methods for software (SPIN model checker, COQ proof assistant)  
Programming (Ruby, Java, C, C++, assembly, ML, shell script, MATLAB)  
Relational databases (SQL, PostgreSQL)  
System administration (Linux, FreeBSD)

## Language Skills

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

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## Teaching Experience

Logic for Computer Science	DD1350	Held recitation classes. Gave lab assistance to students. Corrected written assignments. Development of course material.
Program System Construction Using C++	DD2387	Held recitation classes. Gave lab assistance to students. Development of course material.
Advanced Algorithms	DD2440	Corrected written assignments. Conducted oral exams.
Algorithms, Data Structures and Complexity	DD1352	Gave lab assistance to students. Conducted oral exams.
Compiler Construction	DD2488	Conducted oral exams.
Numerical Methods	DN1240	Lab assistance to students.

## Voluntary Work

Dec 2004 - Aug 2010	IT lead in Excitera. Involved in 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 Sweden's largest computer game development competition, Swedish Game Awards.
Jun 2005 - Dec 2006	Board member and secretary in the entrepreneurship association at KTH, Excitera.

## Publications

- [1] Y. Ismailov, K. Palmskog, M. Widell, P. Arvidsson, and Y. Wang. Session Layer Resurgence: Towards Mobile, Disconnection- and Delay-Tolerant Communication. In *Proceedings of the 4th European Conference on Universal Multiservice Networks (ECUMN'07)*, pages 337–345, Feb. 2007. <http://doi.ieeecomputersociety.org/10.1109/ECUMN.2007.47>.
- [2] K. Palmskog. Verification of the Session Management Protocol. Master's thesis, School of Computer Science and Communication, KTH, Nov. 2006. TRITA-CSC-E 2006:149, ISSN 1653-5715 [http://www.nada.kth.se/utbildning/grukth/exjobb/rapportlister/2006/rapporter06/palmskog\\_karl\\_06149.pdf](http://www.nada.kth.se/utbildning/grukth/exjobb/rapportlister/2006/rapporter06/palmskog_karl_06149.pdf).
- [3] 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*, June 2010.