Svend Christian Svendsen

Curriculum Vitae

□ +45 20 74 91 09
Svendcs@svendcs.com
svendcs.com
github.com/svendcs
linkedin.com/in/svendcs

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Aug 2016 Jul 2021	Computer	Science PhD	Aarhus University
A119 2016 - J111 2021	Computer	Science PhD.	. Aarnus University

Research in I/O-efficient algorithms with applications to graphs and massive terrain data

Sep 2019 – Jan 2020 Visiting PhD Student, Duke University.

Aug 2016 – Jul 2019 Computer Science MSc, Aarhus University

Aug 2013 – Jul 2016 Computer Science BSc, Aarhus University

Aug 2010 – Jul 2013 Gymnasium (STX), Munkensdam Gymnasium

Employment

Aug 2021 – now **Consultant**, Netcompany

Development in Java Spring for the Tax and Public Safety unit.

Nov 2015 – Jul 2016 Student Software Developer, part-time, SCALGO

Development of C++ software for processing large geographical datasets. See scalgo.com.

Nov 2013 - Nov 2015 Student Software Developer, part-time, Aarhus University

Development of the C++ library TPIE used for algorithms for massive data sets on commodity hardware. See cs.au.dk/~rav/tpie.

Jul 2013 – Oct 2013 Student Software Developer, part-time, Døgndata

Development of Ruby on Rails applications for use in institutions for vulnerable youth. See sofus.dk.

Programming Competitions

2013, 2015, 2016, 2017 Northwestern Europe Regional Contest (NWERC)

Best ranking: 13 of 120 (1st among Danish teams)

2013, 2014, 2016, 2017 Nordic Collegiate Programming Contest (NCPC), Aarhus, Denmark

Best ranking: 27 of 253 (2nd among Danish teams)

2013 International Olympiad in Informatics (IOI), Brisbane, Australia

Bronze medal

2012 International Olympiad in Informatics (IOI), Sirmione, Italy

Bronze medal

2011 International Olympiad in Informatics (IOI), Pattaya, Thailand

Publications

2021 Algorithms for Massive Terrains and Graphs

Ph.D. thesis

2021 Practical I/O-Efficient Multiway Separators

Single-authored manuscript

2020 1D and 2D Flow Routing on a Terrain,

ACM SIGSPATIAL 2020, Seattle

Co-authored paper with Aaron Lowe, Pankaj K. Agarwal, and Lars Arge.

2019 Learning to Find Hydrological Corrections,

ACM SIGSPATIAL 2019, Chicago

Co-authored paper with Lars Arge, Allan Grønlund, and Jonas Tranberg.

2017 External Memory Pipelining Made Easy With TPIE,

IEEE BigData 2017, Boston

Co-authored paper with Lars Arge, Mathias Rav, and Jakob Truelsen.

Teaching

2017 – 2021 **Optimization**, Aarhus University

Teaching Assistant for 5 semesters

2017 Combinatorical Search, Aarhus University

Teaching Assistant

2016 Perspectives in Computer Science, Aarhus University

Teaching Assistant

Languages

Danish, Native proficiency

English, Full professional proficiency