

# Svend Christian Svendsen

## Curriculum Vitae

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🔗 [svendcs.com](https://svendcs.com)

🐙 [github.com/svendcs](https://github.com/svendcs)

🌐 [linkedin.com/in/svendcs](https://linkedin.com/in/svendcs)

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## Education

- Aug 2016 – Jul 2021 **Computer Science PhD**, *Aarhus 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*

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## Employment

- Sep 2022 – now **Software Engineer**, *Uber*  
Development of the product catalog and inventory system powering Uber Eats and related verticals.
- Aug 2021 – Aug 2022 **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](https://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](https://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](https://sofus.dk).

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## Programming Competitions

- 2013 **International Olympiad in Informatics (IOI)**, Brisbane, Australia  
Bronze medal
- 2012 **International Olympiad in Informatics (IOI)**, Sirmione, Italy  
Bronze medal
- 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)
- 2011 **International Olympiad in Informatics (IOI)**, Pattaya, Thailand

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## 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.

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## Teaching

- 2017 – 2021 **Optimization, Aarhus University**  
Teaching Assistant for 5 semesters
- 2017 **Combinatorial Search, Aarhus University**  
Teaching Assistant
- 2016 **Perspectives in Computer Science, Aarhus University**  
Teaching Assistant

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## Languages

**Danish**, *Native proficiency*  
**English**, *Full professional proficiency*