Søren Kejser Jensen

Email: soeren@kejserjensen.dk
Homepage: www.kejserjensen.dk

Resume

My primary interest is computer science and especially the intersection between database management systems and programming, which is reflected by my work on both data management and implementation of programming languages at Aalborg University. I enjoy performing an in-depth analysis of existing systems and problems in order to get a clear understanding of how to solve a particular task with the best solution possible.

Education

2015-   **PhD Student,** Department of Computer Science, Aalborg University
- Supervisor: *Professor Torben Bach Pedersen*
- Co-Supervisor: *Associate Professor Christian Thomsen*
- Thesis Topic: *Model-based Time Series Management at Scale*

2013-2015   **Master of Science (MSc) in Computer Science**, Aalborg University
- Specialization: *Programming Technology*
- Master Thesis: *Unifying STM and Side Effects in Clojure*
- Published: *Extending Software Transactional Memory in Clojure with Side-Effects and Transaction Control, Proceedings of the 9th European Lisp Symposium, ELSAA, 2016*
- Followed supplementary **PhD** courses:
    - *Programming Supercomputers*
    - *Semantic Web Warehousing*
    - *Modern Analytical Database Technology*

2010-2013   **Bachelor of Science (BSc) in Computer Science**, Aalborg University
- Bachelor Thesis: *A Hierarchical Model for Continuous Gesture Recognition Using Kinect*
- Published: *A Hierarchical Model for Continuous Gesture Recognition Using Kinect, Twelfth Scandinavian Conference on Artificial Intelligence, IOS Press, 2013*

2007-2010   **HTX**, Communication and Social Studies, Erhvervsskolerne Aars

Employment

2013-2015   **Student Developer**, Department of Computer Science, Aalborg University
Documented the Python based ETL framework *pygrametl,* and extended it with additional capabilities, for example support for Type 1 Slowly Changing Dimensions.

Technical Skills

- Algorithms, Compilers, Data Structures, Interpreters, Machine Intelligence
- Database Management Systems, Data Warehousing, Extract Transform Load (ETL)
- Functional Programing, Imperative Programming, Object Oriented Programming
- Concurrent Programming, Parallel Programming, Distributed Systems

- Apache Cassandra, Apache Kudu, Apache Hadoop, Apache Spark
- GNU Emacs, Git, GitHub, GitLab, LaTeX, PostgreSQL, Pygrametl, Vim
- BSD, Linux, macOS, Windows

Programming Languages

Professional Level
- C, C++, C#, Java, Python, Scala

Intermediate Level
- Bash, Clojure, Emacs Lisp, Haskell, Rust, SQL, Vimscript

Novice Level
- Erlang, Go, F#, OCaml, x86_64 Assembly Language

Languages

Native Speaker
- Danish

Professional Level
- English

Private

In my spare time I do cooking and homebrewing as a hobby, as well as go on leisurely bicycle rides. As a supplement to my professional work, I do read technical books and develop open-source software, for both recreation and in order to learn new technical skills.