

Bram Leenders

+46 72 713 3247 • bcleenders@gmail.com
bcleenders.github.io • Last updated: April 2, 2016

Education

Royal Institute of Technology (KTH) <i>Master ICT Innovation (double degree program), in progress</i> Specialization: Data Intensive Computing	Stockholm, Sweden 2015–2016
Technische Universität Berlin <i>Master ICT Innovation (double degree program)</i> Track: Distributed Systems and Services	Berlin, Germany 2014–2015
University of Twente <i>Bachelor Computer Science</i> Minor: Social and Technological Philosophy	Enschede, The Netherlands 2011–2014
University of Twente <i>Excellence Stream Mathematics</i> An additional mathematics track, consisting of 6 modules and a final thesis. The research topic for my thesis was: "Size of Very Large Euclidean Minimal Spanning Trees with Power Weighted Edges".	Enschede, The Netherlands 2011–2014
Marnix College <i>Gymnasium</i> Track: Science and Technology. Elective courses: Latin, German and Nature, Life and Technology	Ede, The Netherlands 2005–2011

Publications

Simple and Efficient Searchable Symmetric Encryption with Application (2014).....

Best Paper Award: Data and Application Integration Track, Twente Student Conference on IT

Authors: Leenders, B.

Supervisors: Peter, A. and van Keulen, M.

Description: We propose a new searchable symmetric encryption (SSE) scheme, which guarantees data-confidentiality but preserves search capabilities on the encrypted data. Our scheme is simple, yet more efficient than the state-of-the-art solution at the time of writing. We discuss the security and performance of SSE schemes in general, compared to other types of encryption.

Distributed Searchable Symmetric Encryption (2014).....

Authors: Bösch, C.T. and Peter, A. and Leenders, B. and Lim, Hoon Wei and Tang, Qiang and Wang, Huaxiong and Hartel, P.H. and Jonker, W.

Published: Twelfth Annual International Conference on Privacy, Security and Trust, PST 2014, 23-24 July 2014, Toronto, Canada. pp. 330-337. IEEE. ISBN 978-1-4799-3502-4

Description: We propose a new scheme for Distributed Searchable Symmetric Encryption that hides the contents of files, the search queries and the search pattern.

Experience

Work.....

SICS Swedish ICT

Stockholm

Intern

2015-2016

Internship&thesis project focussing on implementing heterogeneous storage in HopsFS, a more scalable alternative to the Hadoop file system.

Gambify GmbH

Berlin

Backend developer

2015

Building a new backend for the Gambify app on top of Hapi, a Node.js framework. Gambify is a social betting app, which allows groups of friends to bet on sports. I worked in a team of three programmers on a complete redesign and rewrite of the old backend to allow scaling.

University of Twente

Enschede

Flex worker in various positions

2011-2014

- *Student assistant, Course Information project:* define aims and descriptions of bachelor and master courses of the faculty EWI.
- *Emergency Response Officer:* assessing emergency situations and giving first aid, evacuating and/or basic fire-fighting.
- *Student assistant, Data and Information module:* evaluating the use of the Ruby on Rails framework for a practical assignment in a new module.

Projects.....

Trend and Topic Detection on Hacker News: Data analytics on the articles posted on Hacker News, using Apache Spark and unsupervised machine learning.

ScienceChallenges: Co-founder of the ScienceChallenges concept, an enhancement of education at Twente University.

Mini-DBMS: With two fellow students, I created a basic database system. We programmed all core functions, including parsing, query optimization, execution engine, index structures and storage.

Student Activism.....

I.C.T.S.V. Inter-Actief

Enschede

Chairman Symposium Committee, SimulatIT

2013-2014

Organization and execution of the annual Inter-Actief symposium (170 participants), which includes acquiring sponsors and speakers, promotional activities and budgeting.

I.C.T.S.V. Inter-Actief

Enschede

Member/Chairman/Vice-chairman Committee Lectures and Excursions

2011-2014

As chairman, I managed a group of ten students and trained my successor. As member, my tasks included the planning, promoting and facilitating of excursions, workshops and weekly lectures for students. This included extensive contact with various companies to acquire sponsoring and speakers.

Languages

Dutch: Native proficiency

English: Full professional proficiency

TOEFL score: 114 out of 120 points

German: Working proficiency