

# Alexander Schaap

## Software Engineer



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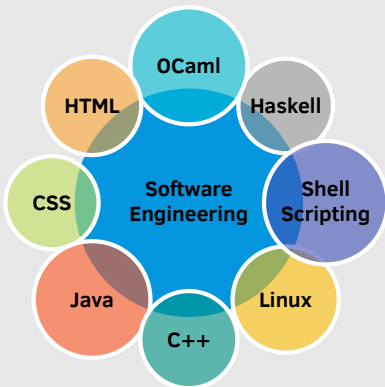


/in/alexanderschaap



aschaap

## Skills



## Projects

**Dana** Website in Ruby and JS to connect restaurants and charities for donating excess food (in return for advertising), and consumers for deals in said restaurants

- 3rd prize at DeltaHacks II
- W Booth Prize for most innovative or entrepreneurial idea

**Rehistoric** Simple GUI revision control for the uninitiated, written in C++ and Qt.

**Chinese Pronunciation App** Android application for learning the correct pronunciation of words in Mandarin, written in Java using Android Studio.

## Education

2017 - Now **Ph.D., Software Engineering**

McMaster University, Canada

2014 - 2016 **M.A.Sc., Software Engineering**

McMaster University, Canada

2009 - 2013 **B.Sc., Computer Science**

University of Twente, the Netherlands

## Experience

Jan 2017 - Present

**Graduate Research Assistant**

McMaster CERC in Hybrid Powertrain

- Currently researching migration of legacy automotive software (Simulink) towards compliance with the AUTomotive Open Software Architecture (AUTOSAR) standard.

Oct 2016 - Dec 2016

**Research Engineer**

McMaster CERC in Hybrid Powertrain

- Finalized the documentation automation effort from the previous Research Assistant Position.

Mar 2014 - Aug 2016

**Graduate Research Assistant**

McMaster CERC in Hybrid Powertrain

- Part of a large multidisciplinary project between McMaster University and Fiat Chrysler Automobiles (FCA) to develop next generation high-performance hybrid powertrains.
- Evaluated various symbolic modeling tools and created a detailed comparison between them.
- Worked with domain experts to reverse-engineer, document and analyze several large FCA Simulink models.
- Directed and assisted in the creation of a process and accompanying templates for automated documentation of Simulink models. Included the supervision of an undergraduate student for 16 months with minimal intervention of supervisors.

Feb 2013 - Dec 2013

**IT Manager (part-time)**

Soltree Sustainable Solutions

- Website design, maintenance and management
- Maintaining computer network and communications
- System maintenance and upgrades, and troubleshooting

Sep 2012 - Oct 2012

**Undergraduate Teaching Assistant**

University of Twente, the Netherlands

- Second-year Databases course
- Assisting students with lab assignments and verifying solutions

## Awards

2017 - 2018

**Ontario Graduate Scholarship (OGS)**

McMaster University, Canada

Awarded \$15,000

## Service & Outreach

2016 - 2017

**Life in Computing & Software (LiCS)**

McMaster University

Co-founder & VP-Technology of the first graduate student club in the department

## Publications

M Bialy, V Pantelic, J Jaskolka, A Schaap, L Patcas, M Lawford, and A Wassyng. "Software Engineering for Model-Based Development by Domain Experts". In: *Handbook of System Safety and Security*. Elsevier, 2016, pp. 39–64.

Alexander Schaap. "Towards Generating Software Modularizations". Master's Thesis. 2016.

Alexander Schaap. "Characterization of tor exit-nodes". In: *Proc. 18th Twente Student Conf.* 2013.