

# David Nilsson

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## Education

2012-now **MSc in Computer Science (theoretical track), KTH, Stockholm, Sweden.**

2009-2012 **BSc in Computer Science, KTH, Stockholm, Sweden.**

2006-2009 **Technical track, High School, Oskarshamn, Sweden.**

## Knowledge

Languages C, C++, Haskell, Java, Python, Verilog

Areas Low-level software development, theoretical computer science, security, functional programming

Architectures X86, AVR, FPGA

## Work Experience

September 2014 – now **Software Engineer, Microsoft, Prague.**

- Software (development) engineer in backend components for Skype
- Working daily on developing and maintaining large scale backend services
- Primarily dev in C++ but role covers design, implementation, review and testing

January 2014 – June 2014 **Master's thesis, Optistring Technologies AB, Stockholm.**

- Researched fault detection in solar panels
- Studied areas in anomaly detection and degradation measurements
- Innovated methods for online-detection and classification of partial shading
- Link to publication record

February 2012 – September 2013 **Embedded developer, Optistring Technologies AB, Stockholm.**

- Focus on developing next-generation solar inverters in a small but highly skilled startup.
- Design, implementation, verification, and troubleshooting of embedded systems.
- Also work with connecting systems, such as embedded linux and data feeds in python.

January 2012 – February 2012 **Consultant in Embedded development, Stockholm.**

- Design and implementation of embedded software, libraries och visualization tools.
- Work with RF connectivity and various sensors.

## Languages

Fluent in both English and Swedish.

## Other

- Portfolio with open source projects - <https://github.com/davnils>
- Blog on computer science - <http://davnils.github.com>