Ludvig Sundström
June 23, 1991, Stockholm

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PROFILE

I am a creative and motivated software engineer with a passion for computing, simple software systems and functional programming.

I quickly found that computer science suited me very well. I enjoy the systematic approach of programming and I love problem solving. Advancements in computer science typically have direct implications in 'real life', which is something that appeals to me.

I pursued a master's degree to explore some subjects in depth; what does computation *really* mean and what is possible to compute? I believe that my studies has helped me adapted a general, versatile way of problem solving.

To keep up to date with quickly evolving technology, I've frequently practiced modern programming languages and new web technologies. By familiarizing myself with a wide range of tools, I feel well prepared doing what I love: building simple, flexible software systems, by solving real problems. Being able to do this is what excites me, and what makes me wake up inspired every morning.

Qualities:

- Broad range of interests and knowledge, both in academic and practical areas

- Patient and thinking through my decisions

- Pragmatic and constantly seeking to improve

Specialties:

- Functional and elegant program design

- Efficient algorithms

- Computational theory and complexity analysis

EDUCATION

MSc. Computer Science   `2016-Now`
University of Bonn

I've specialized in Algorithm Design and Functional Programming. As secondary subjects, I studied Data Mining and Machine Learning. I'm currently writing my thesis with the preliminary title *An Empirical Comparison of Suffix Tree Algorithms*.

Expected graduation date: May 2018.

BSc. Computer Science `2013-2016`

Uppsala University

My first years of studies had a good mixture of practical and theoretical subjects such as Basic Algorithm and Software Design, Computer Architecture, Parallel and Concurrent Programming and Artificial Intelligence. Thesis: *A Force Directed Placement Method Including Angular Resolution and Bond Overlap*

References from both universities can be given upon request

EXPERIENCE

Developer Internship `2017`

Doctronic GmbH, Bonn, three months

I joined a team developing web applications using Clojure(script). I was shown how agile software development can be done efficiently using the most up to date technologies and practices.

Developer and Administrator `2017-2018`

IT-department Bonn University, Bonn, one year

I took a part time job administrating and maintaining the Windows and Linux client/server systems at the university. This included the development of network services and user interfaces. I used mainly the Python programming language and the Flask tool chain.

Developer Internship `2015`

Molsoft L.L.C, San Diego, four months

This was a summer project was aimed at developing computational techniques for visualizing 'Big Data'. It was crucial that I developed best mathematical model and learned how to optimize performance of the implementation. For the engine I used the programming language C, and a front end in Javascript was also developed.

Tutor `2012-2015`

Uppsala University, Uppsala, about two years

During my studies at Uppsala, I was a regular assistant in problem solving for the introductory and intermediate programming courses at the university. We used the Java programming language.

References for all positions can be given upon request

VOLUNTARY WORK

Volunteer `2017`

Code Mesh Conference, London, 2 days

I assisted with the on-site organization of the conference and helped participants.

Teaching assistant `2014-2015`

Kodcentrum, Uppsala, 1 year

I was a regular voluntary teacher in a children's coding school, We used the visual programming language Scratch.

SOFTWARE ENGINEERING

Preferred development stack	Linux, Vim, Purescript, Haskell, PostgreSQL, QuickCheck
Professional experience	Clojure, Clojurescript, Python, Java, C Javascript, Bash, Flask, MySQL, LDAP XML, XSLT, SAX

SPOKEN LANGUAGES

Swedish	Mother tongue
English	Excellent command
German	Good command
Italian	Basic conversational skills