

# Simon TENGREN

## M.Sc. Information and Communication Technologies - Software Engineering

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I am an engineering student in Information and Communication Technologies at **Lunds tekniska högskola**. The education is centered on giving the core engineering competences such as **mathematics, physics, and control technologies**. My program specifically has given me **competence in programming, communication technologies, computer security, and human centered design**. I specialize in software development where I've learned to appreciate writing good and well performing code and using various technologies and methods.

I like to face new and exciting problems where I can apply the experience that I have acquired through both my studies and through real life, but I'm not afraid of "rolling up my sleeves" and facing **new and diverse problems**. Because I know that after facing hardships I emerge as a better, more experienced individual.

### 🎓 EDUCATION

2016 - 2022 Information and Communications Technologies, M.Sc. Engineering Program, LTH, Lund University

### 📋 SKILLS

Programming	C, Java, SQL, PHP, JavaScript, Python, C++, C#, HTML, CSS, $\LaTeX$
Frameworks and Libraries	WebRTC, NodeJS, React, NumPy, ExpressJS, WPF, .NET
Development Tools	Oprofile, Valgrind, GDB, Gradle, Make, Android Studio, git
Operating Systems	Microsoft Windows, Linux
Other software	Adobe Photoshop, MS Office Suite

### 📁 EXPERIENCE

Today Aug. 2022	<b>Software Consultant, 1337, Lund</b> My first employment after finishing my M.Sc. at LTH. <span>Skills TBD</span>
Aug. 2021 June 2021	<b>Software Developer / Summer Intern, AXIS COMMUNICATIONS AB, Lund</b> During the internship I got experience with developing a large product using modern engineering practices such as code reviews, CI/CD, and Agile practices. Gaining experience and respect for modern practices. <ul style="list-style-type: none"><li>&gt; Learned how to apply my knowledge to a <b>new code base</b> in an unfamiliar language.</li><li>&gt; Developed a tool to improve the <b>localization</b> process for better accessibility to the customer.</li><li>&gt; Learned <b>Agile practices</b> and the value it contributes to the process.</li></ul> <span>C#</span> <span>WPF</span> <span>GitHub Actions</span> <span>Agile</span>
Oct. 2019 April 2019	<b>Student Consultant / Developer, FORTLAX DATACENTER, Malmö</b> I worked as a student consultant at Fortlax Datacenter mainly doing work as an API developer using NodeJS. Occasionally doing frontend work as well. <ul style="list-style-type: none"><li>&gt; Got some experience working in real life <b>environment</b>.</li><li>&gt; Learning <b>new technologies quickly</b>.</li><li>&gt; Making <b>decisions that make an impact</b>.</li></ul> <span>JavaScript</span> <span>PHP</span> <span>NodeJS</span>
Jan. 2019 Nov. 2018	<b>Teachers Assistant   Programming Basic Course, JAVA, Lunds tekniska högskola</b> During my studies I worked as a teachers assistant in the basic programming course at LTH. <ul style="list-style-type: none"><li>&gt; Practice my <b>educational</b> skills</li><li>&gt; Hone my <b>communication</b> skills</li><li>&gt; Rehearse the basics</li><li>&gt; Get <b>new perspectives</b> on old problems</li></ul> <span>Java</span> <span>Eclipse</span>

Aug. 2018  
Jun. 2015

## Service Operator, STORA ENSO, Nymölla

During the recent summers I've worked as a service operator at the Stora Enso paper mill in Nymölla.

- > Experience with large amounts **responsibility** to deliver a great product
- > Working at uncomfortable hours (**night shifts**)
- > Getting experience of seeing a product from start to finish

## LANGUAGES

English ● ● ● ● ●  
Swedish ● ● ● ● ●  
French ● ● ○ ○ ○

## + STRENGTHS

- > Disciplined
- > Listening
- > Autonomous
- > Analytic
- > Persistent

## PROJECTS

### INTEGRATION AND EVALUATION OF WEBRTC IN AN EXISTING .NET ENVIRONMENT (M.SC. THESIS)

2021-2022

 [Paper](#)

My masters thesis performed at LTH and Axis Communications where I integrated and evaluated WebRTC as streaming alternative in the specific .NET environment used in video management systems developed by Axis. Here I learned the full WebRTC stack from scratch, as well as how to adapt to the constraints and requirements which were present and still come up with a viable solution. Evaluating and optimizing the implementation by using QoE metrics and profiling tools along the way.

C# .NET WebRTC Performance Evaluation

### A SPECIALIZED B-TREE DATA STRUCTURE FOR DATALOG EVALUATION IN JAVA

2020-2021

 [Paper](#)  [Source Code](#)

Java implementation of the Specialized B-Tree by the Soufl  team. For use in Datalog engines powered by Java. Specialized hint and synchronization for semi-na ve evaluation. Evaluated and compared to other datastructures in the Java runtime library on performance metrics such as memory usage and execution speed.

Java C++ C Gradle JIT-Compilers Evaluation

### GENERAL TEXT PREPROCESSOR

2020

 [github.com/taff3r/GeneralTextPreprocessor](https://github.com/taff3r/GeneralTextPreprocessor)  [Demo](#)

A General Text Preprocessor inspired by the C-preprocessor. Allows for definitions of macros both simple text replacement and functions. Recursive macro definitions, function calls, and conditional statements.

C Make

### PERSONAL WEBSITE

2019-

 [simontenggren.xyz](https://simontenggren.xyz)

Personal website built using React as Single Page Application. Read about me and my personal interests and hobbies.

React JavaScript HTML CSS

## “ REFERENCES

- > Marcus Wiedner - Engineering Manager at Axis Communications AB.
  - > My manager during my internship and master thesis.
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  - > @ [marcus.wiedner@axis.com](mailto:marcus.wiedner@axis.com)
- > Tore Paulsson - Tech Lead at Axis Communications AB.
  - > My supervisor at Axis during my master thesis.
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