

# Sigurður Helgason

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**Website**      [www.sigurdur.me](http://www.sigurdur.me)  
**Github**        [www.github.com/sigurdurhelga](http://www.github.com/sigurdurhelga)  
**Email**         [sigurdur@sigurdur.me](mailto:sigurdur@sigurdur.me)  
**Phone**         (+354) 774-4433

## Personal Profile

My name is Sigurður Helgason. I'm a student at Reykjavik University currently finishing my fifth semester in the Research Based Computer Science program. I finished my students degree at the Technical Academy of Reykjavik from the School of Information Technology prior to starting my studies at Reykjavik University. I'm a very driven individual who enjoys learning new things. My interest in computer science began at an early age and I have been realizing that interest through my studies. Now that I am a couple years into my degree and have some project experience, I am eager to start to apply my new skills in industry.

## Education

**2015-now**    BSc Research Based Computer Science  
                  Reykjavik University  
                  Expected graduation 2018  
                  Current average grade 9.0

**2011-2015**    Technical Academy  
                  School of Information Technology  
                  Matriculation exam

## Projects

During my degree at Reykjavik University I've worked on multiple projects that have given me practical experience in how to work with a team on larger projects. Some of these projects are as follows:

### Dragnet

An Optical Character Recognition system utilizing a Convolutional Neural Network. The system was used to recognize Cyrillic documents that had been damaged. The system can parse scanned documents and produce a electronic copy of the document. The project was written in python utilizing libraries such as TensorFlow and Python Image library.  
[github.com/Sigurdurhelga/Dragnet/](http://github.com/Sigurdurhelga/Dragnet/)

### Mooshark

A website for the students and teachers of Reykjavik University with the purpose of handing out assignments, doing assignments using an in website code editor, and an online coding competition platform. The project was implemented using ASP.NET, HTML, CSS and JQuery.

### Blabbr

A chat server and client written in C utilizing technologies such as ncurses and OpenSSL. The project included creating our own networking protocol; my team created one inspired from IRC.  
[github.com/Sigurdurhelga/blabbr](http://github.com/Sigurdurhelga/blabbr)

### Naouz

A HTTP Web server written in C that was able to handle a large amount of concurrent connections.  
<https://github.com/Sigurdurhelga/naouz>

## Technical Skills

- **Programming Languages**

Python, C, C++, JavaScript, & C#

- **Database Systems**

Postgres, MySQL, MongoDB, & SQLite

## Interests

- **Artificial Intelligence, Machine Learning, Database theory**
- **Blockchain technologies, BigData, Algorithms**
- **Data Analytics, Computer Security, Mathematics**
- **Web development, Fitness, and Equestrianism**

## Employment History

**2017 -** Reykjavik University

**2017** *Teaching-assistant in the Computer Networks course at Reykjavik University*

My role as a teaching-assistant in Reykjavik University was to hold a lecture every week, and to help the students in their course to understand the material of the course better.

**Summer** Icelandic Customs Authority

**2017** *Technical advisor*

My role at the Icelandic Customs Authority was to assist in the overhaul of their software architecture and work methodology. I did a substantial amount of technical writing on the new technology being integrated into other Customs Authorities around the world, for instance Blockchain Technology For Use In Tracking Cargo.

**2015 -** Heuberg Hestahof, Switzerland

**2016** *Horse tamer & Riding instructor*

The experience of working with animals was a very interesting and fun change of perspective. I was given the opportunity to teach people of all ages how to ride horses. I believe this experience helped me greatly in learning how to communicate my knowledge and expertise. Living and working abroad also gave me a great opportunity to grow and be more self-reliant.

**2014 -** Student Council, Reykjavik Technical Academy

**2015** *Member of the student body*

I worked in the student council of my high-school throughout my education there. I played a major role in voicing the opinions and wishes of the students to the faculty at the school.