Sigurður Helgason

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Education

2015-now   BSc Research Based Computer Science
Reykjavik University

Expected graduation 2018
Current average grade 9.0

2011-2015   School of Information Technology
Tækniskólinn í Reykjavík

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 an electronic copy of the document. The project was written in python utilizing libraries such as TensorFlow and Python Image library.
github.com/Sigurdurhelga/Dragnet/

ComboPal
A project which allows combinatorics researchers to visualize prooftrees which make enumerating combinatorial classes a significantly easier feat.
The website was created with Flask, python, and JavaScript. Utilizing the libraries Treant.js, and MathJax

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

Naouz

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

Technical Skills

- **Technologies**

  Tensorflow, Flask, React

- **Programming Languages**

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

- **Database Systems**

  Postgres, MySQL, MongoDB, & SQLite

Interests

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

Employment History

2017 -
2017
Reykjavik University
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
2017
Icelandic Customs Authority
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 new technologies being integrated into other Customs Authorities around the world, for instance Blockchain Technology for use in tracking cargo.

2015 -
2016
Heuberg Hestarhof, Switzerland
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 -
2015
Student Council, Reykjavik Technical Academy
Member of the student body