

# eliasobeid

master of science in computer science and engineering

## about

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February, 1991

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## language

trilingual  
danish/english/arabic

## programming, markup, and tools

C, C++, C#, CUDA,  
Java, JavaScript,  
Python, Ruby, Lua,  
SQL, NoSQL, ReQL,  
Haskell (learning),  
Git, SVN, Docker, Vim,  
Terminal,  $\text{\LaTeX}$ , Linux,  
Windows

## main interests

cryptology  
machine learning  
computer security  
multi-agent system  
software engineering

## education

- 2014–2016 **M.Sc.** Computer Science and Engineering The Technical University of Denmark  
Four semesters (120 ECTS) of four months each. Master thesis with the topic of machine translation and natural language processing.
- 2011–2014 **B.Sc.** Computer Science The University of Aalborg  
Six semesters (180 ECTS) of four months each. Bachelor project with the topic of genetic algorithms.
- 2007–2010 **Student** The Technical Gymnasium of Aalborg  
Communication and Media

## work experience

- since 2016 **Software engineer** Seez  
The founder of Seez has a vision of making it easier and more transparent to sell/buy a used car. I am mainly in charge of the back-end architecture of the company. I re-built the company's API with Flask (a python framework). I maintain the servers, the file storage, and DNS, which is hosted by AWS. The API runs inside a Docker container, from which it serves data for the android and iOS apps. The API is connected to a RethinkDB database. I use Git and Dokku for easy version control and deployment of the API. Moreover, in collaboration with my colleagues, we used Scrapy for data crawling. With that data we were able to apply machine learning techniques to approximate prices of the used car market.
- 2015–2016 **Student developer** Berlingske People A/S, Radio24syv  
Development of website, API infrastructure, and other IT tools used internally. Mainly development with NodeJS with ExpressJS, AngularJS, and C#. For serving the IT systems we used Heroku and custom local servers. Moreover, some other systems had been outsourced to third party contractors. On the custom local servers, we used git and Dokku for easy deployment and revision control of the developed code. The services were connected to third party data sources along with a local MongoDB database.
- 2014–2015 **Student developer** Falck Healthcare A/S  
Development of a booking system for a service, that Falck Healthcare offers its clients. Mainly web development with Ruby on Rails. The booking service stored data in a PostgreSQL database.
- 08–12 2013 **Assistant teacher** The University of Aalborg  
Assistant teacher in imperative programming with C.
- 02–07 2011 **Private (national service)** Danish Emergency Management Agency  
Firefighting education and emergency duty.

## publications

- Oct 2016     **Neural Machine Translation with Characters and Hierarchical Encoding** arxiv.org/abs/1610.06550  
We propose a model for translating between languages with a hierarchical architecture. It is fed with sequences of characters from a source language and produces a translated sequence of characters in a target language. We argue that, by comparison to current state of the art models, this hierarchical architecture reduces computational complexity, and that it improves translation performance.

## other activity

- 2011–2011     **Education in Firefighting** Danish Emergency Management Agency  
Fire, Rescue, Environment and Communication.
- 2013–2014     **Member of the Board of Studies** The University of Aalborg  
Discussions of applications of qualifications and exemptions, study lines, quality assurance of education and the like.
- 2012–2014     **Volunteer mentor** Danish Red Cross Youth  
A project called Sunshine youth, with the purpose of motivating youngsters for an education in Aalborg (Denmark).