eliasobeid
master of science in computer science and engineering

about

Elias Khazen Obeid
February, 1991
Danish citizen

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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, LaTeX, Linux,
Windows

main interests
machine learning
computer security
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.

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.

since 2016 — Co-founder & machine learning consultant — munk.ai

A start-up company in collaboration with co-authors of master thesis. We are very excited about machine learning and general software development, and thought that there weren't many machine learning consultancy firms in for instance Denmark. So, we decided to start, what we ended up calling munk.ai.

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

Web development with Ruby on Rails using 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**

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).