# Richárd Krisztián Csáky

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## EDUCATION

**Budapest University of Technology and Economics**, Budapest, Hungary

- MSc in Software Engineering — Sep 2018 – Jun 2020
  - Main specialization in AI and NLP
- BSc in Mechatronics Engineering — Sep 2014 – Jan 2018
  - Degree GPA: 4.79/5.00, Excellent with Highest Honours
  - Thesis: Parking Spot Recognition and Visualization with Semantic Segmentation

## RESEARCH EXPERIENCE

**Department of Automation and Applied Informatics**, Budapest, Hungary

- Neural Chatbots under Dr. Gábor Recski — Apr 2017 – Present
  - Check github repo for a detailed description, and also the 2 papers I've written (Survey, Research).
  - My notes on 150 publications that I have read in the field of deep learning, focusing on dialog agents.
- Study of protein circuits using self-developed software (GitHub) — Oct 2015 – May 2017

## AWARDS

- First place at the National Scientific Students' Associations Conference — Apr 2019
  Deep Learning Based Chatbot Models paper.
- First place at the Scientific Students' Associations Conference — Nov 2017
  Deep Learning Based Chatbot Models paper.
- Second place at the Scientific Students' Associations Conference — Nov 2016
  Study of dipole-dipole coupled protein-based circuits using self-developed simulation software paper.

## WORK EXPERIENCE

**Robert Bosch GmbH**, Budapest, Hungary

- Software Engineer, Driver Assistant Division — Apr 2018 – Aug 2018
  Continued the work described below (in my internship), as a full-time employee. Collected a much larger dataset and experimented with the YOLO model, with good results.
- Software Engineer Intern, Driver Assistant Division — Jul 2017 – Mar 2018
  For my BSc thesis, I built a user interface in OpenGL and OpenCV for selecting parking spots projected on the ground on the real-time feed of a camera. Moreover, I collected and labeled my own dataset, and I researched and trained semantic segmentation models. Please contact me for a copy of my thesis.

**Department of Automation and Applied Informatics**, Budapest, Hungary

- NLP Researcher — Apr 2018 – Jan 2019
  Researched data filtering methods to improve neural chatbots, submitted the work to EMNLP.
- Project Laboratory Supervisor — Feb 2018 – Present
  I advised an undergraduate student on a research project related to unsupervised NMT, and I'm also currently supervising several others working on my Neural Chatbots project.
- Teaching Assistant — Feb 2017 – Jun 2017
  I was a teaching assistant for electrical engineering labs. I helped students complete the lab by explaining the theoretical material and by helping them put together the experiments.

## VOLUNTEER ACTIVITIES

**Budapest Cultural Center**, Budapest, Hungary

- Informatics Lecturer — Oct 2012 – May 2013
  I taught older people how to use the internet and useful websites like facebook, gmail, google and others.

## LANGUAGES

- Hungarian, Romanian: Native language.
- English: C1 level (TOEFL iBT: 115/120).
- French: B2 level (Advanced level high school final exam).

## IT SKILLS

- Microsoft Office (Excel, Word, Power Point, Access)
- Mathematica, Inventor, NI LabView, Ansys, R (studied during 1 semester)
- C/C++ (studied during 3 semesters, used in projects)
- Python, Java, Matlab (studied during 2 semesters, used in projects)
- OpenGL, TensorFlow, PyTorch, Processing, LaTex, Git (self-taught, used in projects)