Alexander Rosenberg Johansen's Resume

PERSONAL INFORMATION

Phone:	(+45) 3141-0954	Github:	github.com/alrojo
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PROFESSIONAL EXPERIENCE

2017 - 2018 **Salesforce Research**
Deep learning research, intern. Supervised by Richard Socher.

2016 **Technical University of Denmark**
Teaching assistant in Deep Learning (TensorFlow/Theano)

2015 – 2016 **Consultant for seez.co (Emerati start-up)**
Backend development and car/license plate recognition

2015 **Technical University of Denmark**
Teaching assistant in introduction to programming (Matlab, R, Python)

EDUCATION

2014 – 2017 **Technical University of Denmark (DTU), Denmark**
MSc in Mathematical Modelling and Computing, on the Elite Honours track, specializing in Deep Learning. The first part was software engineering centred and the latter devoted to research on deep learning. Final GPA is 11.44 (-3 to 12)

2015 **Exchange: Nanyang Technological University (NTU), Singapore**
My exchange study was devoted to research on deep learning methods and resulted in an IEEE-ICASSP publication.

2011 – 2014 **Copenhagen Business School (CBS), Denmark**
BSc in Business Administration and Information Systems. Final GPA is 10.70 (-3 to 12)

2013 **Exchange: Lincoln University, New Zealand**

ACHIEVEMENTS

Started the tensorflow.contrib.seq2seq library, commit id: #4761, #4686, #4382
+1,800 star Github repository
Top 17% (whale recognition) and 26% (diabetic retinopathy) on Kaggle
Received $12,000 in scholarships for my exchange studies.
Assisted reviews (through Richard Socher) for ICML2017 and NIPS2017

TECHNICAL

Software Development
My BSc and the first part of my MSc focused on software engineering with Python, Java, SQL, F#, Matlab, Prolog and PHP. Moreover, I have learned Linux, Git, Vim and Latex independently.

Mathematical Modelling
At my MSc I have delved into topics on deep learning and algorithms & data structures. I currently work in PyTorch and previously with TensorFlow, Theano and Lasagne. Further, I have experience in parallel algorithms and CUDA.

PUBLICATIONS: JOURNALS

V. Jurtz, A. Johansen, M. Nielsen, J. Armenteros, H. Nielsen, C. Sønderby, O. Winther and S. Sønderby, "An introduction to deep learning on biological sequence data: examples and solutions"
BIOINFORMATICS Volume 33, Issue 22, Pages 3685-3690, Oxford University Press

PUBLICATIONS: CONFERENCES

A. Johansen, C. Sønderby, S. Sønderby and O. Winther, "Deep recurrent conditional random field for protein secondary structure prediction" 2017 ACM-BCB

A. Mohebbi, T. Aradóttir, A. Johansen, H. Bengtsson, M.Fraccaro, M. Mørup, "A deep learning approach to adherence detection for type 2 diabetics" 2017 IEEE-EMBS

A. Johansen, J. Jin, T. Maszczyk, J. Dauwels, S. Cash and M. Westover, "Epileptiform spike detection via convolutional neural networks" 2016 IEEE-ICASSP

PUBLICATIONS: WORKSHOPS AND SYMPOSIUMS

A. Johansen, R. Socher, "Learning when to skim and when to read" 2017 ACL REPL4NLP

A. Johansen, J. Hansen, E. Obeid, C. Sonderby and O. Winther, "Neural Machine Translation with Characters and Hierarchical Encoding" 2016 NIPS RNN SYMPOSIUM

BLOG POSTS

Learning when to skim and when to read (from the ACL REPL4NLP paper above)
Social impact (twitter/facebook): +100k impressions with 15k visitors
https://einstein.ai/research/learning-when-to-skim-and-when-to-read

PERSONAL INTERESTS AND ACHIEVEMENTS

Sustainability and the welfare of our planet is a key topic to me. I use my technical skills in my spare time on subjects such as rare species detection (whales).