Liam Schoneveld

EDUCATION

Master of Science (Artificial Intelligence)   2015-2017
The University of Amsterdam
Weighted average mark of 8.5/10 (Cum Laude).

Bachelor of Commerce (Liberal Studies)   2009-2013
The University of Sydney
Majors in Economics and Econometrics. Weighted average mark of 79/100.

New South Wales (Australia) Higher School Certificate   2003-2008
Fort Street High School, Sydney
University Admission Index of 98.45/100.

PROFESSIONAL EXPERIENCE

Lead Data Scientist, **Gust**   Oct 2019-Present

Developing and deploying machine learning algorithms for mobile-based social media apps. Projects thus far are focused on human voice and facial expression understanding, emotion recognition, and video summarisation. Am also engaged through Gust in a research collaboration with Dr. Alice Othmani of Universit Paris-Est Créteil, working on a paper in the emotion recognition space.

Data Scientist (Deep Learning / Computer Vision), **Pandascore**   2017-2019

Developing and deploying deep/machine learning models for prediction and computer vision in e-sports.

Machine Learning Specialist, **Scyfer (acquired by Qualcomm)**   Feb-Sep 2017

Completed my Artificial Intelligence (AI) masters' thesis while interning at Scyfer, an AI consultancy that was acquired by Qualcomm in late 2017. During this period I researched and developed semi-supervised deep learning techniques, focusing on computer vision applications.

Econometrics Contractor, **LEK Consulting**   2016-2017

Contracted in 2016 by L.E.K. Consulting to develop econometric revenue analysis and forecasting models for several assets belonging to a large (ASX top 50) Australian client.

Economics Consultant, **PricewaterhouseCoopers**   2013-2017

Consulted with clients primarily from the transport industry. Focus was on econometric and economic modelling (e.g. demand forecasting, cost-benefit analyses, project appraisal, etc.) and associated analysis and reporting. Continued in this role remotely from 2015 while studying my MSc in Amsterdam.

Software Developer / Data Entry Clerk, **Law in Order Pty Ltd**   2010-2013

Worked in a team tagging and labeling documents to produce electronic databases of legal evidence. This role evolved to include software development and maintenance, after a database assurance tool I proposed to management was given the go-ahead.

OTHER ACHIEVEMENTS

- Ongoing: Maintain a blog with posts on machine learning at **nlml.github.io**
- Ongoing: Where possible, contribute to open source projects on GitHub - e.g. Pytorch, mlflow (see https://github.com/nlml)
- Ongoing: Answer questions on StackOverflow, see: stackoverflow.com/u/6167850 & stats.stackexchange.com/users/112095
- 2018: Presented at Meetup Computer Vision Paris, presentation titled: *Tracking Player Positions on the League of Legends Minimap*
- 2018: Participated in the 2018 Amsterdam Dance Event Hackathon (worked in a team to build a deep learning-based reverse image search application)
- 2018: Participated in the Kaggle TensorFlow Speech Recognition Challenge (placed 186th out of 1100 participants)
- 2017: Graduated *Cum Laude* from the MSc Artificial Intelligence program at the University of Amsterdam
- 2017: Received an 8/10 for my MSc AI thesis: *Semi-Supervised Learning with Generative Adversarial Networks*, supervised by Prof. Dr. Max Welling and Taco S. Cohen
- 2016: Placed 1st out of 50 student groups in a Kaggle-style machine learning competition as part of the UvA/VU course *Data Mining Techniques*
- 2015: Placed 17th out of 985 participants in Kaggle's *Facebook Recruiting IV: Human or Robot?* data science competition
- 2013: Placed 2nd out of 108 students in the *Operations Management* course at the University of Sydney
- 2010: Awarded two separate International Exchange Scholarships by the University of Sydney, based on academic merit
- 2008: Placed 7th of 2730 students in Higher School Certificate course *Software Design and Development.*

SKILLS AND STRENGTHS

General:

- Broad knowledge in fields relating to machine learning, statistics, computer science and economics, obtained both academically and professionally
- Excellent writing skills; able to concisely convey ideas to diverse audiences
- Great verbal communication skills; thrive in a team environment.

Programming languages/software experience:

- Expert in Python and its data science / machine learning stack (numpy, sklearn, pandas, matplotlib, etc.)
- Expert in modern deep learning libraries (namely, Pytorch, TensorFlow, Theano)
- Strong experience with Unix/Linux
- Experience developing a machine learning model deployment system using Docker, Cassandra, Postgres, RabbitMQ, RethinkDB, Redis
- Expert in Git, R, VBA, Matlab, SQL, LaTeX
- Experience with Java, C++, HTML, CSS, JavaScript, Julia
- Data and geospatial visualisation abilities in Tableau and Quantum GIS (QGIS)
- Expert in Microsoft Office, notably Excel