johnaslanides

Research Engineer

contact

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links

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technical

Machine learning
Artificial intelligence
Software engineering
Applied mathematics

programming

Python • TensorFlow
Go • JavaScript
MATLab • LaTeX
Mathematica
Excel/VBA

education

2015 - 2016 **MSc • Computer Science (Hons)** — The Australian National University
First Class Honours and the University Medal • 7.0/7.0 GPA
Specialization: Artificial Intelligence
Thesis: AIXIjs: A Software Demo for General Reinforcement Learning
Advisors: Dr. Jan Leike & Professor Marcus Hutter

2008 - 2012 **BSc • Physics (Hons)** — The Australian National University
First Class Honours • 6.2/7.0 GPA
Specialization: Theoretical Physics
Thesis: Relativity Concept Inventory
Advisor: Professor Craig Savage

2011 **Associate in Music, Australia (AMusA)** — Australian Music Examinations Board
Award with Distinction • Piano Performance
Diploma awarded by examination to outstanding candidates in the fields of musical performance and music theory.

2006 - 2007 **High School Certificate** — Canberra Grammar School
1st in physics & french, and top overall science student • 99.25 ATAR
Extension 2 Mathematics, Physics, Chemistry, English, Extension French

experience

2017 - **Research Engineer** — Google DeepMind
Artificial Intelligence research, focussing on reinforcement learning.

2017 **Machine Learning Consultant** — Self-employed
Machine learning R&D for a telematics tech startup in Sydney.
Technologies include GIS, time series clustering, and deep learning.

2015 - 2016 **Software Engineer** — Karma Wiki
Backend web development for a social network startup based in Canberra.
Implemented numerous features, including draft and notification systems.

2014 - 2015 **Software Consultant** — Stygron Systems
Software developer & consultant to ACT Health. Designed and implemented systems for use in operating theatres and labs in the Canberra Hospital, and maintained existing medical supply chain systems.

2013 - 2014 **Graduate Researcher** — NICTA & The Australian National University
PhD researcher in physics. Developed my skills in statistics, signal processing and machine learning on two projects:

- Novel signal processing techniques for the LIGO project.
- Structured prediction on conditional random fields.

Teaching assistant for two undergraduate physics courses:

- PHYS1201 – electromagnetism, waves & optics, and special relativity.
- PHYS3001 – variational calculus, quantum mechanics, electromagnetism & relativistic field theory.

publications

2013 **The Relativity Concept Inventory** Physical Review Special Topics
J. S. Aslanides & C. M. Savage
Phys. Rev. Special Topics: Physics Education Research Vol. 9, Issue 1

2017 **General reinforcement learning: survey & experiments** IJCAI 2017
J. S. Aslanides, J. Leike, and M. Hutter
Proc. of 26th International Joint Conference on Artificial Intelligence

awards

2016 **University Medal** The Australian National University (ANU)

2014 **Top-up Scholarship** National ICT Australia (NICTA) ($10,000/year)

2013 **Australian Postgraduate Award** Commonwealth Government ($25,000/year)

2012 **John Carver Honours Scholarship** ANU ($2,500/year)

2008 **College of Business & Economics Undergraduate Award** ANU ($5,000)

2007 **HSC Premier's Award** NSW Government