Martin Schrimpf

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Education

10/2014 - 02/2017	Elite Master's Program Software Engineering, TU & LMU Munich & University of Augsburg, GPA 4.0 w/honors Elite Graduate Program for a small group of students with a focus on the areas Formal Methods, Project Management, Distributed Systems, Databases, Human Computer Interaction and soft-skills. Additional courses in Machine Learning. Master's Thesis at Harvard University on the role of brain-inspired recurrent neural algorithms for advanced object recognition.
	<u>Technologies</u> : Java, C++, SQL, QVTO, Maude, CTL, LTL
10/2011 - 07/2014	Bachelor's Program Information Systems, <i>TU Munich</i> , <i>GPA</i> 3.8 Combination of economic fundamentals and computer science with a focus on Information Systems. Bachelor's Thesis at the <i>University of Sydney</i> : Investigation of hardware transactional memory and its effectiveness as a synchronization technique for databases, graded <i>A</i> +. Study Abroad at the <i>Auckland University of Technology</i> : Courses in Artificial Intelligence and Management. Project on a novel landmark-based approach to perceptual mapping (SLAM) at CAIR Technologies: Java, UML, SQL, C++, C, Assembly, ARIA

All grades converted into the American 4-point system

Experience

04/2016	Research Assistant, Kreiman Lab, Harvard Medical School
- 11/2016	Research at the bridge of machine learning, neuroscience and
	cognitive science with a focus on the role of recurrent connections.
	We improved object recognition performance on occluded objects
	from 45% with Alexnet to 74% with our models and offered a first
	possible application of recurrency in the human brain. We are also
	investigating the robustness of deep convolutional neural networks
	and the role of context for object detection
	Technologies: Matlab, Python, keras, Theano, Linux, ECoG, LSF
12/2015	Research Assistant, Oracle Labs
- 04/2016	Enabled research teams to flexibly utilize the Oracle RDBMS on the
	internal cluster by developing an on-demand database module
	Technologies: Linux, LSF, Virtual Machines

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07/2015 - 10/2015	Software Engineering Intern, Siemens AG Architectural concept and development of a behavior-driven testing framework that can run a test specification written in natural language and that is now used in three major business areas <u>Technologies</u> : Python
07/2012	Freelancer , Martin Schrimpf Software Solutions
- 12/2015	Software Development and Services - projects include:
	Greimel IT-Systemhaus GmbH Led the development of a Document
	Management System including optical character recognition
	(OCR), a financial accounting interface and a dynamic
	workflow and process management system which made the
	client company effectively paper-free
	R-Backup Datensicherung GmbH Developed a multilingual
	website's front- and backend to administrate partners and customers and to issue invoices
	Promonde JLT Implemented an advertisement website for Arabic
	countries with over 10k users per day
	Technologies: Java, JavaScript, PHP

Publications

2016	H. Tang*, B. Lotter*, M. Schrimpf*, A. Paredes, J. O. Caro,
	W. Hardesty, D. Cox, and G. Kreiman, "Recurrent computations for
	pattern completion", <i>Under review</i> ,
2016	M. Schrimpf, Should i use tensorflow, Seminar Paper, University of
	Augsburg. arXiv: 1611.08903 [cs.AI]
2014	M. Schrimpf, "Scalable database concurrency control using
	transactional memory", Bachelor's Thesis, Technical University
	Munich

Extracurricular Activities

02/2016	Artificial Intelligence Workshop
	Organized a two-day workshop on Neural Networks, Machine
	Learning and Organic Computing. The speakers were Prof.
	Günther Palm, PD Rolf Würtz and Dr. Joschka Bödecker
Since	Co-Founder and Technical Lead, Integreat
08/2015	Platform to deliver information from local authorities and helper
	organizations to refugees in over 80 German cities. Implementation
	of the administration backend and a cross-platform app, later
	coordination of the development community
	<u>Technologies</u> : Xamarin (C#), Android (Java), WordPress (PHP)
2015 - 2016	MINGA Mentor for International Students, TU Munich
Since	Rotaract Club München Residenz
10/2013	Youth club of Rotary, based on the community, helping and
	learning. Social initiatives, e.g. with our orphanage sponsorship

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