

Wang Liang

programmer + machine learning + mathematics

contact Experience

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languages

Python
+ numpy/scipy/pandas
+ scikit-learn
+ jieba/ltp
+ gensim/word2vec
+ matplotlib
+ PyCharm
+ IPython
C/C++
+ makefile/imake
+ Serial port, CAN port
+ CORBA(TAO)
Jupyter notebook

10/2018-now	Artificial-Intelligence-for-NLP China Team	AI Programmer
	News view point extractor , Beijing subway transfer search , DFS/BFS graph search, TF-IDF, Deep Learning Algorithm and wordcloud produce	
5/2013-10/2018	GE Healthcare	Lead Software Engineer
	Image Quality process and Auto Test tool CI/OEM develop leader, Discovery XR656 HD , Optima XR646 HD , Discovery XR656 plus , Optima XR646 Fixed Radiography Systems Lead Software Integrator, Platform of X-Ray Exposure control system developer, Offline software tools such as Ghost, Linux System-Rescue, ISO build and CD burn strong contributor	
4/2011-5/2013	China Nuclear Control Systems Engineering Co., Ltd	Senior Software Engineer
	Nicsys1000 system developer, design various HMI with QT for Nuclear Power Plant DCS(Distributed real-time control system), build SVN server for team, bring team member to QT conference for new technology deep dive	
6/2010-3/2011	Carestream Healthcare	Software Intern
	Carestream X-Ray System DR V5 build for cells setup, and report bug with Bugzilla	

Education

JSON
Tk/Tcl
Perl
Qt
C#
SQL
regex(pressions)?
L^AT_EX

2008-2011	M.A., Computer Science	ShangHai University
	Graduate course sequences in Combinatorics/Graph Theory, Probability, plus Computer Engineering	
2003-2007	B.S., Mathematics	JXUFE
	Pure mathematics concentration. Courses in Analysis, Algebra, Combinatorics, Probability	

Projects

computing

Linux
Redhat/CentOS
+ rpmbuild
+ sed/awk/grep/vi
Ubuntu/Gento
+ SystemRescueCd
+ grub
+ minicom/vnc/ftp/ssh
Mac OS
+ Anaconda
Common
+ jenkins
+ git
+ svn
+ clearcase

10/2018-now	News view point extractor NLP Project	
	Use word2vec and TF-IDF, probability Algorithms, this project aims to for any input News text, extract the main view point of each speaker, present it as format "who said what"	
11/2018-12/2018	Beijing subway transfer search Hobby Graph Search Project	
	Use BFS/DFS/A* Algorithms, demo a Graph search solution, land on Beijing Subway transfer search	
3/2017-5/2018	Reli GE Project	
	Reliability is an auto test tool for GE products internal CI, developed with python, tk/tcl, shell scripts, ssl, minicom etc skills under Linux, involved random algorithm testing instead of old tool which use fixed steps method record by VNC, improve coverage rate greatly, own high reputation	
10/2013-9/2017	Everest G1/G2/G3 GE Project	
	Everest G1/G2/G3 are a sequences Radiography of GE Family products developed by global team, as a Lead Software Integrator along with it all the way	
5/2013-10/2013	Calypso GE Project	
	Calypso is a Platform of exposure control system which used for GE Fixed X-Ray products under Linux	

interests

text analysis
+ entity resolution
+ distributional semantics
unsupervised learning
+ clustering algorithms
+ dimensionality reduction
harmonic analysis
+Fourier transfer
+Wavelet analysis
Riemann Hypothesis

Miscellaneous

2018	Rank in Institute #1	GeeksforGeeks
2017	BUILDING ESSENTIAL LEADERSHIP SKILLS (BELS)	Crotonville Leadership
2016	Fourier series deep explanation	Internal Seminar
2010	A new solution of node splitting to the R Tree algorithm	IEEE Paper