stevenwerner computer (neuro) scientist

contact

StevenWernerCS@gmail In://StevenWernerCS tw://StevenWernerCS StevenWernerCS.com

programming

♥ Java Python & Bash PHP JS iQuery JSP Scala MatLab Visual Basic Autolt VXML IATEX

full stack

git maven gradle Redmine Jira Gerrit Jenkins GitLab Kube Rancher Spring B/D/C Docker AWS spark bootstrap

data

SPARQL & RDF TF, PyTorch, pandas Ontologies PostGreSQL solr Hibernate

editors

Intellij Vim pyCharm jupyter netbeans Eclipse

operating systems

CentOS Linux & Mac Windows w/ linux

languages

Native English Elementary Spanish

experience

2018-Present **Raytheon: Intelligence and Space** (Interim TS Clearance)

Science & Technology: Principal Software Engineer & Data Scientist ML/DL based Natural Language Processing: knowledge extraction, topic classification, information retrieval, document similarity & question answering

- Collaboration Awards: Data & ETL Project Lead for TITAN & DCGS-A CD1
- Innovation Award: Attributed Point Pattern matching & Route Analytics
- Patent Award: Question Answering Models in Closed Domains
- Authors and Inventors Award: from the IIS Innovation Center for exceptional design architecture and implementation contributions to an Internal Research and Development project in my first 6 months

2014-2018 **Lymba Corporation**

Product Manager/Software Engineer Natural Language Processing and Research: knowledge extraction, topic clas-

sification, information retrieval & question answering • Fill many roles: applications architect, team leader, developer, presenter

- Hands on all aspect development, data retrieval, pre-processing, backend & front-end design and implementation

Interactive Systems Group (ISG) 2012-2014

Undergraduate Research Assistant

Researched the utility of prosody in spoken information retrieval.

- Developed a prosody based audio search application (Didi-Sidekick)
- Improved on distance similarity model using linear regression
- Joined lexical and prosodic models using raw probability estimates

publications

QA

Text Analitics **Knowledge extraction for literature review**

JI DC 2016 Tatiana Erekhinskaya, Mithun Balakrishna, Marta Tatu, Steven Werner, Dan Moldovan

Automatic Extraction of Actionable Knowledge

ICSC 2016

Marta Tatu, Mithun Balakrishna, Steven Werner, Tatiana Erekhinskaya, Dan Moldovan.

K-Extractor: Automatic Knowledge Extraction for Hybrid Question Answering ICSC 2016 Mithun Balakrishna, Steven Werner, Marta Tatu, Tatiana Erekhinskaya, Dan Moldovan

Semantic Question Answering on Big Data

Marta Tatu, Steven Werner, Mithun Balakrishna, Tatiana Erekhinskaya, Dan Moldovan.

Evaluating Prosody-Based Similarity Models for Information Retrieval MediaEval 2013 Info Retrieval Steven D. Werner, Nigel G. Ward.

The Similar Segments in Social Speech Task

MediaEval 2013

Richardson, TX

Richardson, TX

University of Texas at El Paso

Nigel G. Ward, Steven D. Werner, David G. Novick, Elizabeth E. Shriberg, Catharine Oertel, Louis-Philippe Morency, Tatsuya Kawahara.

Using Dialog-Activity Similarity for Spoken Utterance Retrieval

InterSpeech 2013

Nigel G. Ward, Steven D. Werner. 1569-1573

A Prosody-Based Vector-Space Model of Dialog Activity for Information Retrieval Speech Communication

Nigel G. Ward, Steven D. Werner, Fernando Garcia, Emilio Sanchis.

old projects gh://StevenWernerCS	education			
Zulu Minecraft Malmo	2022	Masters in Applied Cognition and Neuroscience GPA: 3.89 (In progress) • Computational Modeling/Intelligent Systems	University of Texas at Dallas	
Towards bio-realistic neural networks	2013	Bachelors in Computer Science Major GPA: 3.7, Overall GPA: 3.3 • Selected for the NSF Research Experience for the NSF Researc	University of Texas at El Paso	
SenQual 2013 Weather Data Anomaly Detection	2011	Computer Engineering King Mongkut's University of Technology at Thonburi, Bangkok Signals & Systems, Digital Circuits Engineering & C Programming		
Web Application	2008	Associates of Mathematics Overall GPA: 3.5	El Paso Community College, Texas	
MIPS emulator 2013 decodes asm2machine executes instructions updates registers	other experience			
8bit Controller 2012 Nintendo puck on USB Serial port comms Money Clock 2010 Counted money made instead of time past MineSeeperBeater 2005	2010–2011	 KBR, Al Asad Air Base Aviation Fuels Accountant (Security clearance: SECRET) Responsible for maintaining accountability records of all KBR's fuel on airfield. (Capacity of 795,000 Gallons of JP-8 jet fuel) KBR Star Award: Increased efficiency & accuracy of Fuels Accounting Office. Within 2 months of assignment developed automated forms and reports through MS Word/Excel/Outlook automation with Visual Basic. Automated records aided in identifying meter errors well before calibration date requirements KBR Appreciation Awardx3: Perfect fuel accounting audit scores 		
bot visually plays with mouse moves/clicks my first script	2008–2010	Mesilla Valley Transportation Over The Road Driver Approx. 300,000 commercial miles driven. No accidents, no incidents, virtually no supervision Drivers Education: Commercial Drivers Licenses: T		
references		 Drivers Education: Commercial Drivers License: Tanker, Doubles/Triples Mesilla Valley Transportation Institute 2008 El Paso, Texas Highest GPA of class 		
professional Dr. Mithun Balakrishna Lymba Director of Research and	2005–2006	CAI Tutoring Lab, El Paso Community College Certified All Level Math/Physics Tutor Unstructured setting: one on one, few on one & la	El Paso, Texas arge groups.	
Engineering mithun@lymba.com Richardson, TX	2003–2009	900 th Quartermaster Company, United States Army Respectation Supply Specialist E-4 STATUS: Honorably Discharged • Battalion Soldier of the Year 2005	serves El Paso, Texas	
research Dr. Nigel Ward		Army Achievement Medalx4 Served as unit's acting Communications Sergeant Maintained SINGCARS ather military approximately acting the communications of the communicat		

Dr. Nigel Ward ISG Advisor UTEP CS Professor nigel@utep.edu El Paso, TX

peer

Dr. Shreyas Karkhedkar ISG Labmate / TA Google Analytics karkhedkar.shreyas@ gmail.com Mountain View, CA

Highest GPA of class

interests

Military Education includes:

professional: general artificial intelligence, bio-realistic neural networks, information retrieval, big data representation, neuroscience, blockchain, quantum computing **personal:** traveling, camping, hiking, percussion, tutoring, dirt biking, mobile app development

• Maintained SINCGARS other military communications equipment.

- Trained in Casualty First Aid, including administering an IV

• 2004 Ft. Lee, VA: AIT MOS 77F/92F Distinguished Honor Graduate

• 2008 Ft. Irwin, CA: U.S. Army Certified Combat Lifesaver