stevenwerner
computer (neuro) scientist

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programming
♥ Java Python & Bash
PHP JS jQuery JSP
Scala C++ MatLab
Visual Basic AutoIt
VXML LaTeX

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)   *Richardson, TX*
Science & Technology: Senior 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**   *Richardson, TX*
Product Manager/Software Engineer
Natural Language Processing and Research: knowledge extraction, topic classification, information retrieval & question answering
- Fill many roles: applications architect, team leader, developer, presenter
- Hands on all aspect development, data retrieval, pre-processing, back-end & front-end design and implementation

2012–2014 **Interactive Systems Group** (ISG)   *University of Texas at El Paso*
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

Text Analitics **Knowledge extraction for literature review**   JLDC 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.

Q A **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   SBD 2016
Marta Tatu, Steven Werner, Mithun Balakrishna, Tatiana Erekhinskaya, Dan Moldovan.

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

The Similar Segments in Social Speech Task   MediaEval 2013
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.

education

2022	**Masters** in Applied Cognition and Neuroscience	University of Texas at Dallas

GPA: 3.89 (In progress)
- Computational Modeling/Intelligent Systems Specialization Area

2013	**Bachelors** in Computer Science	University of Texas at El Paso

Major GPA: 3.7, Overall GPA: 3.3
- Selected for the *NSF Research Experience for Undergraduates Program*

2011	Computer Engineering	King Mongkut's University of Technology at Thonburi, Bangkok

Signals & Systems, Digital Circuits Engineering & C Programming

2008	**Associates** of Mathematics	El Paso Community College, Texas

Overall GPA: 3.5

other experience

2010–2011	**KBR, Al Asad Air Base**	Al Asad, An Abar Province, Iraq

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 Award*x3: Perfect fuel accounting audit scores

2008–2010	**Mesilla Valley Transportation**	El Paso, Texas

Over The Road Driver
Approx. 300,000 commercial miles driven.
No accidents, no incidents, virtually no supervision.
Drivers Education: Commercial Drivers License: Tanker, Doubles/Triples
- Mesilla Valley Transportation Institute 2008 El Paso, Texas
  - **Highest GPA of class**

2005–2006	**CAI Tutoring Lab, El Paso Community College**	El Paso, Texas

Certified All Level Math/Physics Tutor
Unstructured setting: one on one, few on one & large groups.

2003–2009	**900th Quartermaster Company, United States Army Reserves**	El Paso, Texas

Petroleum Supply Specialist E-4
STATUS: **Honorably Discharged**
- **Battalion Soldier of the Year 2005**
- **Army Achievement Medal**x4

Served as unit's acting Communications Sergeant
- Maintained SINCGARS other military communications equipment.

Military Education includes:
- 2008 Ft. Irwin, CA: U.S. Army Certified Combat Lifesaver
  - Trained in Casualty First Aid, including administering an IV
- 2004 Ft. Lee, VA: AIT MOS 77F/92F Distinguished Honor Graduate
  - **Highest GPA of class**

interests

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