

stevenwerner

computer (neuro) scientist

contact

In://StevenWernerCS
g+://StevenWernerCS
tw://StevenWernerCS
fb://StevenWernerCS
StevenWernerCS.com

languages

Native English
Elementary Spanish

programming

♥ Java Python & Bash
PHP JS jQuery JSP
Scala C++ MatLab
Visual Basic Autolt
VXML L^AT_EX

operating systems

♥ Linux Mac
Windows

full stack

maven git
solr spark
Spring REST
docker AWS
bootstrap

database

♥ SPARQL & RDF
PostgreSQL
Hibernate

editors

♥ IntelliJ Vim
netbeans Eclipse

experience

- 2018-Present **Raytheon: Intelligence, Information Services** Richardson, TX
Science & Technology: Software Engineer II
ML/DL based Natural Language Processing: knowledge extraction, topic classification, information retrieval, document similarity & question answering
- 2018 *Authors and Inventors Award* recipient from the IIS Innovation Center for 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 Analytics **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.

projects

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SenQual 2013

Weather Data
Anomaly Detection
Web Application

MIPS emulator 2013

decodes asm2machine
executes instructions
updates registers

didi-Sidekick 2012

Prosody Based
Query-By-Example
Info Retrieval System

8bit Controller 2012

Nintendo puck on USB
Serial port comm
simulates keystrokes

Money Clock 2010

Counted money made
instead of time past

MineSeeperBeater 2005

bot visually plays with
mouse moves/clicks
my first script

references

research

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

academic

Dr. Ann Gates
Senior Project Mentor
UTEP CS Chair
agates@utep.edu
El Paso, TX

peer

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

education

Ongoing

Masters in Applied Cognition and Neuroscience

University of Texas at Dallas

GPA: TBD

- 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

Study Abroad

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 the Fuels Accounting Office.

- Within 2 months of assignment developed automated forms and reports through MS Word/Excel/Outlook automation with **Visual Basic**.

KBR Appreciation Awardx3: Perfect fuel accounting audit scores.

- 3 consecutive quarters.

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