

stevenwerner

computer scientist

contact

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StevenWerner.name
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languages

Native English
Elementary Spanish

programming

♥ Java & C
MatLab, Bash, Python
PHP, JavaScript, HTML
VXML, & Autolt

experience

2014-Present **Lymba Corporation**

Richardson, TX

Software Developer

Natural language processing and knowledge extraction

- Maintain and improve the K-Extractor Tool
- Manage ontology database for semantic expansion

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 (Sidekick)
- Improved on distance similarity model using linear regression
- Joined lexical and prosodic models using raw probability estimates

education

2013 **Bachelors** of Science in Computer Science

University of Texas at El Paso

Major GPA 3.7, Overall GPA: 3.3

- Selected for The National Science Foundation's Research Experience for Undergraduates Program at UTEP

2011 Study Abroad

King Mongkut's University of Technology at Thonburi, Bangkok

Signals & Systems, Digital Circuits Engineering & C Programming

2008 **Associate** of Mathematics

El Paso Community College, Texas

Overall GPA: 3.5

projects

2013 **SenQual: Weather Anomaly Detection Web Application**

Course: Software Engineering

User specified constraints applied to sensor data. System parsed constraints, verified near real-time streaming data, notifying user if constraints were violated.

2012 **Sidekick: Prosody Based Information Retrieval System**

ISG: Research

Built on top of a simple audio listening application that displays the transcribed text and audio. Sidekick provided the prosody based query-by-example search functionality as well as a simple transcript word search.

publications

1st Author **Evaluating Prosody-Based Similarity Models for Information Retrieval** MediaEval 2013
Steven D. Werner, Nigel G. Ward.

2nd Author **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

submitted **A Prosody-Based Vector-Space Model of Dialog Activity for Information Retrieval**
Speech Communication
Nigel G. Ward, Steven D. Werner, Fernando Garcia, Emilio Sanchis.

references

research

Dr. Nigel Ward
ISG Advisor
UTEP CS Professor
nigel@utep.edu
+1 (915) 747-6827
El Paso, TX

academic

Dr. Ann Gates
Senior Project Mentor
UTEP CS Chair
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peer

Dr. Shreyas Karkhedkar
ISG Labmate / TA
Google Analytics
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Mountain View, CA

Mr. Carlos Luavanos
Senior Project Teammate
UTEP BS in CS Grad
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El Paso, TX

other experience

- 2010–2011 **KBR, Al Asad Air Base** Al Asad, An Abar Province, Iraq
Aviation Fuels Account
Responsible for maintaining accountability records of all KBR's fuel on airfield. (Capacity of 795,000 Gallons of JP-8)
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. 250,000 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 2006**
• **Army Achievement Medal**x4
Served as units acting Communications Sergeant
• Maintained SINCGARS other military communications equipment.
Military Education:
• 2008 Ft. Knox, KY: Hazmat "H7" Petroleum Vehicle Operator
– Qualified in the operation and operator maintenance of petroleum tank vehicles
• 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**

volunteer experience

- 2002–2004 **Horizon City Fire Department** Horizon City, Texas
Volunteer Fire Fighter
Training:
• Fire Hose, 'Jaws of Life', Blind Structure, Underground Tunnel, Limited Oxygen Rescue

interests

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