

stevenwerner

computer scientist

contact

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StevenWerner.name
StevenWener@acm.org

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 as well as a simple transcript word search. Developed as proof of concept for initial user-centric experiments.

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
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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