

# stevenwerner

computer 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  
C++ C MatLab  
VXML & Autolt

## operating systems

♥ Linux Mac  
Windows

## full stack

maven git  
solr storm  
docker AWS  
handlebars bootstrap

## database

PostGres SQL  
hibernate  
SPARQL & RDF

## editors

netbeans vim

## experience

2014-Present **Lymba Corporation**

Richardson, TX

*Product Manager/Software Engineer*

Natural language processing, topic classification & knowledge extraction

- Manage small dev team throughout the entire development process
- Direct customer interaction through weekly progress meetings

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

## publications

1<sup>st</sup> Author

**Evaluating Prosody-Based Similarity Models for Information Retrieval** MediaEval 2013

Steven D. Werner, Nigel G. Ward.

2<sup>nd</sup> 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

**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

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.

## other projects

gh://StevenWernerCS

### MIPS emulator 2013

decodes asm2machine  
executes instructions  
updates registers

### 8bit Controller 2012

Nintendo puck on USB  
Serial port comm  
simulates keystrokes

### Money Clock 2010

Counted money made  
instead of time past

### MineSeeperBeater 2005

Windows Automation  
Autolt bot plays visually  
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

## 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. 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

### 900<sup>th</sup> 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 Medalx4**

Served as unit's 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, information retrieval, big data representation, neuroscience, quantum computing **personal:** traveling, camping, hiking, percussion, tutoring, dirt biking, mobile app development