

Clare Harshey

Computer Science professional with a background in computational linguistics and a passion for problem solving.

Bloomington, IN

-Email me on Indeed: <http://www.indeed.com/r/Clare-Harshey/0a874d01bef14de4>

I am a Computer Science professional specializing in Natural Language Processing (NLP)-based software solutions, with a passion for computational linguistics and problem solving. I am seeking a full-time position to apply and develop my technical and communications skills in a setting where curiosity, innovation, and integrity are highly valued.

Authorized to work in the US for any employer

Work Experience

Computer Scientist

Naval Surface Warfare Center Crane - Crane, IN

June 2018 to Present

Research focusing on analyzing unstructured text and modeling domain knowledge through use of machine learning and natural language processing techniques. Member of Crane Artificial Intelligence Development Lab (CrAIDL) and Artificial Intelligence Community of Practice (AICOP).

Duties include:

- Technical lead on a project developing automated cybersecurity risk assessments for Marine Corps systems
- Developed Excel macro-based spreadsheet system for project procurement process, which reduced man-hours spent on procurement-related tasks by 98%
- Developed software component for identification of incorrect serial numbers and product IDs through unsupervised outlier detection
- Submitted proposal packages for research funding
- Research lead for cross-organizational project developing semantic search software for improvement of ship maintenance processes
- Interfaced with researchers in the Navy and partner universities to explore and develop collaboration opportunities
- AICOP reading group administrator
- Completed DAWIA Level 1 (Engineering) and Crane's Associate Scientist Certification
- Configuration Management (CM) lead for a small team; participated in audits and CMMI certification events (SCAMPI A and B)
- Traveled to southern Indiana high schoolers for career presentations; provided job shadowing experience for visiting high schoolers

Accomplishments & Achievements:

- C5ISR Integration Division Employee of the Month, January 2019
- Presented research at Naval Applications for Machine Learning (NAML) workshop, February 2019
- Presented research at Purdue University Department of Computer Science, February 2019

- Finished 3rd in the Navy's "Hack the Machine" competition, finishing 3rd with the CrAIDL data science team, September 2019

Editor/Graduate Assistant

The LINGUIST List - Bloomington, IN
May 2016 to June 2018

Duties included:

- Linguistic annotation of Yiddish speech data for STYLAR (Speech Technologies for Yiddish Language Archives)
- Preparing and pre-processing data to be used in the development of automatic speech recognition and other Natural Language
- Processing (NLP) software for under-resourced languages
- Submitted funding application packages for further support of STYLAR
- Primary Editor of Jobs and Reviews areas of LINGUIST List operations
- Managed annual fundraising efforts, including content writing & strategies on LINGUIST List website, blog, and social media
- Managed summer intern hiring process
- Responsible for communicating with users, board of advisors, and social media followers

Fieldwork Processing Intern

The Language Conservancy - Bloomington, IN
June 2017 to August 2017

Duties included:

- Worked as member of small team to process and analyze fieldwork data collected from speakers of Acoma, an endangered New Mexico indigenous language
- Used Google Sheets, Audacity, Praat, and FLEx to analyze and catalog written and spoken data
- Helped to construct a preliminary phonological model and orthographic system for the language

Library Student Assistant, Database Integrity

University of Kentucky William T. Young Library - Lexington, KY
August 2014 to May 2016

Maintained database integrity through catalog audits, book labeling and inventory organization.

Ophthalmic Technician

Bluegrass Retina Consultants - Lexington, KY
January 2013 to April 2014

Duties included:

- Conducted patient work-ups, histories and basic external exams
- Conducted testing using ophthalmic imaging machines
- Assisted physician in exams and in-office procedures
- Scribed for physician in Electronic Health Record (EHR) system
- Provided patient education for health topics and medication use
- Attended local and national workshops to develop clinical skills

ANSAR Technician

Pike Medical Consultants - Indianapolis, IN
August 2011 to August 2012

Duties included:

- Conducted Autonomic Nervous System (ANSAR) testing with pre-operative patients
- Scanned and cataloged physical paperwork
- Organized digital file storage system

Education

Master of Science in Computational Linguistics

Indiana University - Bloomington, IN

August 2016 to May 2018

Bachelor of Arts in Linguistics

University of Kentucky - Lexington, KY

August 2012 to May 2016

Skills

- AI
- Data Science
- Git
- Machine Learning
- Natural Language Processing
- Software Development
- Python
- Java
- Ophthalmology Experience
- C#
- Scripting
- Transcription
- C
- Cybersecurity
- Computer Science
- Agile
- JavaScript
- APIs
- Linux
- GitHub
- SQL
- AWS
- Software troubleshooting
- Computer networking
- Google Suite

- C++ (4 years)

Links

<https://linkedin.com/in/harshey>

Awards

Division Employee of the Month

January 2019

Certifications and Licenses

Secret Security Clearance

2018 to 2023

Assessments

Research — Highly Proficient

February 2021

Following protocols, interpreting statistics and graphs, identifying errors, and choosing research methodology

Full results: [Highly Proficient](#)

Working with MS Word documents — Highly Proficient

October 2021

Knowledge of various Microsoft Word features, functions, and techniques

Full results: [Highly Proficient](#)

Analyzing data — Expert

October 2021

Interpreting and producing graphs, identifying trends, and drawing justifiable conclusions from data

Full results: [Expert](#)

Indeed Assessments provides skills tests that are not indicative of a license or certification, or continued development in any professional field.