

# Ashwin Mishra

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## EDUCATION

### YOUNGSTOWN STATE UNIVERSITY

08/2016-05/2019 | Youngstown, Ohio

#### B.S. IN COMPUTER SCIENCE

#### MINOR IN MATHEMATICS

Summa cum laude

President's list (All semesters)

GPA: 4.00/4.00

## LINKS

Website: <https://ashwin9999.github.io>

Github: [ashwin9999](#)

LinkedIn: [ashwin-mishra](#)

## SKILLS

### PROGRAMMING LANGUAGES

JavaScript • Python • C++ • Java • Rust

### FRAMEWORKS & LIBRARIES

Angular 2+ • Node.js • Koa.js • D3.js  
TensorFlow • Keras • Scikit-learn • NLTK  
NumPy • SciPy • Pandas • Matplotlib

### OTHERS

Kubernetes • Docker • Mocha.js • Redis  
Tableau • Jupyter • MATLAB • Anaconda

### DATABASES

PostgreSQL • MongoDB

### ML CONCEPTS

Deep neural networks • Clustering  
Random forest • Reinforcement learning  
Support vector machine • LSTM • NLP  
Naive Bayes classifier • Logistic regression

## LEADERSHIP

### INTERNATIONAL STUDENTS' ORGANIZATION | PRESIDENT

08/2017 - 08/2018

- Organized the International Education Week - a week-long event where international students celebrate cultural diversity.
- Developed and moderated online forums for current and prospective international students to address their concerns regarding admission and scholarship opportunities.

## RESEARCH & WORK EXPERIENCE

### SPEECH RECOGNITION USING 1D CNN | SENIOR PROJECT

01/2019 - 05/2019 | Spring semester, senior year

- Developed a program that translates human voice to text using a 1D convolutional neural network.
- Implemented sequence annotation without alignment that is on par with connectionist temporal classification (CTC) while being simpler.

Language: Python | Supervisor: Dr. Feng Yu

### SENTIMENT ANALYSIS | INDEPENDENT STUDY

08/2018 - 12/2018 | Fall semester, senior year

- Developed a sentiment analyzer that analyzes the sentiment of student surveys from Youngstown State University.
- Developed a Google Chrome extension that categorizes professor reviews based on polarity.

Language: Python, JavaScript | Supervisor: Dr. Alicia P. Langerica

### SENSOURCE INC.

#### JR. SOFTWARE ENGINEER

06/2019 - Present

- Improved the retrieval time for occupancy data by over **70%** by optimizing retrieval queries and utilizing caching strategies.
- Transformed a monolith web application to several micro-services for simpler and rapid development/deployment.
- Design, develop and maintain SenSource software solutions which includes writing fault-tolerant high-level code, testing and implementing software applications to meet the functional and technical requirements.

### YOUNGSTOWN STATE UNIVERSITY

#### RESEARCH ASSOCIATE

05/2017 - 07/2018

- Led the development of iTrace-Eclipse - an Eclipse IDE plugin that implicitly gathers eye gazes and maps them to the IDE elements.
- Led the development of iTrace-Chrome - a Chrome extension that maps eye gazes to elements from the web page opened in Chrome.

Language: Java, JavaScript | Supervisor: Dr. Bonita Sharif

## PEER REVIEWED PUBLICATION

### ETRA 2018| EYE TRACKING RESEARCH & APPLICATIONS

06/2018| Warsaw, Poland

Drew T. Guarnera, Corey A. Bryant, Ashwin Mishra, Jonathan I. Maletic, and Bonita Sharif. 2018. iTrace: eye tracking infrastructure for development environments. DOI: <https://doi.org/10.1145/3204493.3208343>

## AWARDS & HONORS

2018	Best Demo	ACM ETRA conference, Warsaw
2017	Most Valuable Person in a Team	Software Engineering Project
2016	President's Scholarship	Youngstown State University