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
Neural Networks • Random Forest
Logistic Regression • k-means clustering
k-nearest neighbors • LSTM • NLP
Naive Bayes classifier • Linear Algebra

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. Langarica

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

Year	Award	Source
2018	Best Demo	ACM ETRA conference, Warsaw
2017	Most Valuable Person in a Team	Software Engineering Project
2016	Scholarship for Excellence	Youngstown State University