

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+ • NgRx • Ionic • Node.js • Koa
• Spring • GraphQL • TensorFlow •
NumPy • SciPy • Scikit-learn • Pandas

DEPLOY/BUILD/ORCH/TEST

Kubernetes • Docker • Terraform •
Maven • Circle CI • Mocha • Chai

DATABASES

PostgreSQL • MongoDB • DynamoDB

OTHERS

gRPC • REST • Microservice/Monolith
architecture • Version Control (Git) •
Redis • CI/CD • Neural Networks (CNN,
RNN) • Support vector machine •
MapReduce • Bayesian Statistics

LEADERSHIP

INTERNATIONAL STUDENTS' ORGANIZATION | PRESIDENT

08/2017 - 08/2018 | Youngstown
State University

- 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 financing.

RESEARCH & WORK EXPERIENCE

SPEECH TO SQL | SENIOR CAPSTONE PROJECT

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

- Developed a program that translates human voice to SQL commands using a 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 sorts the professor reviews according to the polarity of reviews.

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 numerous 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 the eye gazes to the attributes of the websites 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	Scholarship for Excellence	Youngstown State University