Ashwin Mishra

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Education

University of California - San Diego

M.S. in Computer Science (AI/ML), *Expected: June 2023*

Youngstown State University

B.S. in Computer Science, *Summa cum laude*

Work

SenSource Inc. | Software Engineer (06/2019 - 04/2021)

Improved the data retrieval time by nearly **30%** by optimizing retrieval queries and caching strategies. Reduced the deployment time by transforming a monolith to several gRPC-based microservices.

Research

Eye Tracking

Led the development of **iTrace** - a software that implicitly gathers eye gazes and maps them to the screen elements.

> 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

Speech Recognition

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

Skills

Python, JavaScript, C++, Java, Rust
TensorFlow, Keras, Python Data Stack, Tableau, Jupyter, Anaconda, MEAN Stack
MongoDB, DynamoDB, PostgreSQL