

Tristin Cory

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Skills

- **Languages:** Python | C++ | C | Javascript | SQL | Java | Apache Groovy | Powershell
- **Frameworks/Libraries:** Tensorflow | PyTorch | Gatsby.js | Next.js | GraphQL | React | Postman | Git | Microsoft Deployment Toolkit | Scrum/Agile | Frontend | Backend

Experience

Data Analyst I **O'Reilly Auto Parts** *Springfield, MO, USA* **08/2023 - Current**

- Applied champion challenger model integrating ARIMA and exponential smoothing for demand forecasting in stores.
- Presented data-driven strategies to C-suite executives and stakeholders of team projects.
- Solve problems outlined by business stakeholders utilizing statistical, machine learning, and deep learning techniques.
- Internship: Training program covering Java, SQL, and Spring MVC.

CODERS Grant Research Assistant **Missouri State University Computer Science Dept.** *Springfield, MO, USA* **01/2021 - 12/2022**

- Led a team of 3 that developed introductory computer science curriculum for grades 3-8 and reported progress in bi-weekly meetings.
- Explored the use of robots for teaching STEM and computing concepts to middle and high school students.
- Integrated computer science curriculum into other academic disciplines such as natural sciences and language arts.

Graduate Assistant **Missouri State University ResNet** *Springfield, MO, USA* **01/2020 - 12/2020**

- Managed daily office operations for a team of 15 employees.
- Assisted with projects that needed additional help to meet deadlines.
- Assigned work orders and projects to employees.
- Trained new employees in technologies and procedures of the workplace.

Education

Master's Degree, Computer Science **Missouri State University** *Springfield, MO, USA* **12/2022**

- **Thesis:** Speaker Encoding for Zero-Shot Speech Synthesis
- **Contribution:** Proposed a novel speaker encoder architecture based on transformer components to optimize performance in zero-shot text-to-speech systems. My proposed speaker encoder was implemented in python and TensorFlow. The model showed zero-shot text-to-speech performance gains over GE2E and S-vector speaker encoders.

Bachelor's Degree, Computer Science **Missouri State University** *Springfield, MO, USA* **12/2019**

- Minor in Mathematics
- **Coursework:** Advanced Web Programming, Advanced Data Structures and Algorithms, Software Engineering, Computer Networking.
- **Project:** Source Code Recommendation Engine
- **Contribution:** In an Agile/Scrum based team we developed a natural language processing model to search source code for reusable code snippets from private GitHub repositories. I personally implemented the recurrent neural network portion of the project.

Projects

- **Resume Website:** Created a [resume website](#) for personal learning utilizing Next.js, Auth0, and MongoDB. **05/2022**
- **Company Website:** Designed and developed a [modular website](#) to meet the client's needs. Utilized Gatsby.js and integrated the Contentful content management system with Vercel for continuous deployment. **02/2023**

Publications

- **Conference Paper:** T. Cory and R. Iqbal "Multi-Scale Speaker Vectors for Zero-Shot Speech Synthesis," 2022 IEEE 46th Annual Computer, Software, and Applications Conference (COMPSAC) [LINK](#) **06/2022**
- **Conference Paper:** T. Cory and R. Iqbal "Comparison of Multi-Scale Speaker Vectors and S-Vectors for Zero-Shot Speech Synthesis," 2022 IEEE 46th International Symposium on Multimedia (ISM) [LINK](#) **12/2022**