

Experience

Backend Developer and Data Wrangler at Localify.org May 2020 - Present

- Boosted site functionality by adding over 30,000 new artist to city connections with strategic webscrapers built in Python
- Constructed web scraping infrastructure to keep the database perpetually up-to-date
- Ran and reported user tests to ensure frontend is approachable and intuitive

Backend Engineer for Cornell Veterinary School May 2019 – Feb 2020

- In a Scrum team of 6, designed and implemented an Intelligent Tutoring System for Cornell Veterinary School curriculum to help students learn critical information outside of class
- Demonstrated a working prototype on a biweekly schedule to clients to reform the product goal

Research

Machine Learning Engineer exploring Fairness in Music Recommendation Jan 2021 – Present

- Working to expose commercial bias in popular music recommendation services like Spotify by implementing and evaluating state-of-the-art ML algorithms such as ALS, SLIM and EASE
- Authoring a paper to be submitted to ISMIR 2021 with a team of 3

Projects

AI Music Maker

- Created 3 music generating agents of varying intelligence using different AI techniques that output MIDI information to be read into a sequencer
- Surveyed classmates to prove quality of music improved as intelligence developed

Restaurant POI Interface

- In a scrum team of 5, designed and implemented a functional backend and GUI to practice test driven development and agile principles

Reverse engineering Youtube's database structure

- Created an SQL database with mock data to explore the causes and effects of bottlenecks in SQL

Reversi Intelligent Agent

- Developed an intelligent agent equipped with minimax, transposition tables and alpha-beta pruning to compete in a game of Reversi

Education

Ithaca College Sept 2017 – Present

Bachelor of Computer Science | Minor in Psychology
Cumulative GPA 3.6 | Graduating in May 2021

Skills

Languages

Java, C, C++, Python, SQL, HTML, Assembly

Technology/Frameworks

Git, JUnit, Maven, Spring, MySQL, Scikit-learn, Implicit, Surprise, Jupyter, SSH, AWS, BeautifulSoup, Selenium