

# Radcliff Turkin

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## Skills

Python	PostgreSQL	Node.js	MongoDB	Tableau
Flask	Git	React.js	SQL	Spark
Tensorflow	Scikit-Learn	AWS	Django	Javascript

## WORK EXPERIENCE

**Python Instructor and Subject Matter Expert at Hackbright Academy and Dev Mountain** *Mar. 2023 – Present*  
*Remote, US*

- Teach Python and Flask, covering data structures, data types, functions, debugging, IDEs, and best practices
- Provide guidance for student projects, troubleshooting and anticipating questions to challenging concepts
- Communicate complex ideas simply with real world examples, and gather supporting documentation
- Assist students in completion of full stack projects using Jinja, Python, Flask, SQLAlchemy, and Postgres

### Freelance Web Developer

*Oct. 2021 – Present*

*Remote, US*

- Built a mixture of full-stack and frontend solutions for clients utilizing HTML/CSS/Javascript and MERN stack
- Worked independently and with small teams applying agile methods like SCRUM for project management
- Collaborated with other developers to build responsive web applications using best practices to reach goals

### Gender Pathways Community Advisory Board Member at Northwestern Medicine

*Jan. 2020 – Present*

*Chicago, IL*

- Advocate for trans community needs in healthcare with supporting data for hospital networks
- Develop practical data driven recommendations for increasing accessibility for historically marginalized groups
- Collaborate with medical staff to create provider education materials and deliver quality inclusive care

### Math Teacher at Chicago Public Schools

*Aug. 2015 – Jun. 2019*

*Chicago, IL*

- Planned and taught advanced high school math courses, including AP Statistics, AP Calculus BC, and IB Maths.
- Tracked standards-based learning, identifying classroom trends to guide lesson planning improving learning and retention by 29%

### Nature Oasis Program Coordinator at Chicago Park District

*Jun.. 2014 – Nov. 2019*

*Chicago, IL*

- Managed data and staffing logistics for upwards of 500 programs connecting nearly 10,000 individuals with nature and community in the city each year
- Created data collection surveys for staff and integrated feedback with existing city data to improve programming and bring resources to underserved and low income neighborhoods

## PROJECTS

### HappyWhale Kaggle Competition (Machine Learning Model)

*Python/Tensorflow/Keras*

*Machine Learning model that identifies specific whales and dolphins by their fin image*

- Collaborated with a partner to build a keras model with high prediction accuracy
- Created classification model experimenting with triplet loss, and k-folds cross validation
- Generated pipeline for jpg image classification

### I Think You Should Leave / Tim Robinson Discord Chatbot

*Python/Pandas/JSON*

*Chatbot modeled to speak in style of comedy show 'I Think You Should Leave' to spread humor and ward off loneliness*

- Built ETL pipeline for dialogue scraped and cleaned from XML and SRT caption files extracted from Netflix
- Trained model using Hugging Face open source Natural Language Processing (NLP)

### Coordinate Finder Web App

*Python/Flask/Docker*

*App that returns the specific coordinates for each pixel of an image given the placement on a grid and size of image*

- HTML front end and Python with Flask on the back end, wrapped inside a Docker container

## EDUCATION

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### University of Illinois at Chicago

*Masters of Science of Teaching, Mathematics and Secondary Education*

- Studied Number Theory, Real Analysis, Abstract Algebra and Cryptography
- Teaching Assistant for Statistics, and Algebra courses

### Northeastern Illinois University

*B.A. in Communications, Media, and Theater and B.S. in Anthropology, Minor in Mathematics*

- Undergraduate electives included Computer Science courses in Programming with C++ and Data Structures.
- Tutored Mathematics to hundreds of fellow college students at the school's Math Lab
- Program Director / Station Manager at WZRD 100 watt FM radio station

### Adobe Digital Academy - Data Science Immersive

*Adobe Sponsored Data Science and Machine Learning Immersive*

- Completed 480+ hours of work as an Apprentice in the Adobe Digital Academy program with General Assembly
- Expanding data science and software engineering skills through rigorous academic coursework, hands-on projects, and real-world apprenticeship experiences
- Built real world projects with data analysis, statistical modeling, machine learning, data visualization, natural language processing, and neural networks with Python

### FreeCodeCamp

*Responsive Web Design Certification*

*Javascript Algorithms and Data Structures Certification*

*Back End Development and API's Certification*

*Scientific Computing with Python*

### 100Devs

*Fullstack Web Dev/Software Engineering Agency with 10 month training program*

### Kaggle Certifications

*Python, Pandas, Intermediate Machine Learning, Data Cleaning, Intro to Deep Learning, Computer Vision*

## VOLUNTEER WORK

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### Virtual Coffee – Member-Volunteer

*Oct. 2022 – Present*

*Remote, Worldwide*

- Coordinated and led Zoom meetings on tech and tech-industry related topics
- Participated in and provided support in the form of pair programming, rubber ducking, and resource sharing

### Alliance for the Great Lakes – Team Lead

*Apr. 2015 – Mar. 2020*

*Chicago, IL*

- Coordinated and lead beach clean ups and data collection

## ACHIEVEMENTS

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- **Multi-Class Prediction of Obesity Risk Machine Learning Kaggle Notebook - Silver Medal - Feb 2024**
- **Adobe Digital Academy Data Science Immersion Scholarship Award - January 2024**
- **MLH Monthly Hackathon Winner - Best use of Kintone - January 2024**
- **Best of San Francisco Stand Up Winner - 2022**
- **NBC Standup Semi Finalist - 2017**
- **Produced and Hosted Monthly Comedy Show - 2015-2018**