

# Kyle Shaffer

## Frontend Developer

Experienced Machine Learning Scientist & tech professional targeting Frontend Dev role.

 Portfolio  GitHub  LinkedIn  Email  414-517-7191

## EXPERIENCE

### RWS GROUP | NLP RESEARCH SCIENTIST

Sept 2020 – Current | Los Angeles, CA (remote)

- Collaborate with engineering teams to deploy custom trained NLP models to production, increasing language coverage for users.
- Test, evaluate, and fine-tune open-source Large Language Models (LLM's) for internal use cases.
- Build data processing pipelines using REST APIs to increase efficiency of model ingestion and training.

### QNTFY | SR. DATA SCIENTIST

Dec 2018 – Sept 2020 | Arlington, VA (remote)

- Trained and deployed containerized deep learning models within larger project pipelines for data-intensive micro-service applications.
- Implemented, tested, and evaluated machine learning models from research papers.

### MICROSOFT | DATA & APPLIED SCIENTIST II

May 2017 – Dec 2018 | Redmond, WA

- Worked closely with other data scientists and engineers to integrate models into web-based machine learning service components.
- Built and evaluated deep learning models for natural language applications including grammar analysis, sequence and word tagging, and document classification.

### PACIFIC NORTHWEST NATIONAL LABORATORY | DATA SCIENTIST II

May 2017 – Dec 2018 | Seattle, WA

- Built and validated deep learning models for application areas in language and image analysis relevant to client needs.
- Tested and developed natural language processing and entity-extraction models as modules for larger software pipelines.

## PROJECTS

### VISUAL QUESTION ANSWERING WEBAPP | REACT, JAVASCRIPT, LLM'S, VERCEL

vqa-llm-app.vercel.app

- Built single-page web-app in React allowing users to interact with Visual Question Answering LLM able to ingest image and text data.
- Integrated HuggingFace machine learning REST API for easily interacting with deployed LLMs.
- Deployed web-app on Vercel hosting service via GitHub integration.

### TWITTER SENTIMENT MAP DURING COVID-19 | D3.JS, JAVASCRIPT, HTML, VERCEL

covid-sentiment-viz.vercel.app

- Built single-page data app using dynamic animation from D3.js to visualize sentiment expressed on Twitter over several months during COVID pandemic.
- Fetched, processed, and cleanly visualized GIS data from web sources.
- Deployed web-app on Vercel hosting service via GitHub integration.

## SKILLS

### PROGRAMMING

JavaScript • Python • HTML • CSS • SQL

### LIBRARIES/Frameworks

React • D3.js • ChakraUI • Flask • PyTorch • Pandas

### TOOLS/PLATFORMS

Git • Vercel • AWS

## EDUCATION

### UNIVERSITY OF NORTH CAROLINA, CHAPEL HILL

M.S. IN INFORMATION SCIENCE

May 2015 | Chapel Hill, NC

### UNIVERSITY OF WISCONSIN, EAU CLAIRE

B.A. IN PHILOSOPHY

May 2010 | Eau Claire, WI

## CERTIFICATIONS

**Certificate: Advanced React Meta** (Coursera 2024).

Skills: Responsive web development, component design, React hooks, REST APIs.

**Certificate: Programming with JavaScript Meta** (Coursera 2024).

Skills: Fundamentals of JavaScript, object-oriented programming, DOM element manipulation, unit tests.

**Certificate: HTML & CSS In-depth Meta** (Coursera 2024).

Skills: Responsive web layout, Bootstrap.css, interactive UI design.