

Reshav Abraham

Full Stack ML Engineer

about me

I am a passionate software engineer interested in Full stack development and machine learning. I have experience building backend API's and Frontends. I also have experience in training and serving machine learning models.

Work Experience

Nlmatics

NLP Engineer

New York, NY — October 2019 - April 2021

Early Stage Startup Company that specialized in search and retrieval from unstructured text data. It enabled users to perform search queries on digital data such as pdf/html/text to extract specific information. The product is built in python, swagger api (OpenApi 3.0.0) and served with gunicorn. The frontend was implemented with React and ANTD. It was containerized with Docker and deployed with kubernetes, It is hosted on gcp and azure.

- * Improved text indexing from PDF documents to enhance search retrieval quality.
- * Designed back-end APIs with Python and Swagger.
- * Built out front-end features with React and ANT design.
- * Lead on-prem installation for clients and deploying on restrictive environments.
- * Maintained and debugged CI/CD pipelines, with Docker and Kubernetes.
- * Designed and Implemented a Search Flagging/Approval System to track dips and improvements in search quality.

Dell EMC

Software Intern

Charlotte, NC — May 2017 — August 2017

- * Optimized memory usage for enterprise data pipelining software by modeling a regression on real-time memory consumption data using Apache Spark.

Projects

Human Voice Detection

- * Developed a neural network architecture using CNN and linear layers for processing audio signals to identify human voices.
- * Developed a script for scraping audio from YouTube playlists.
- * Utilized MFCC and other signal processing techniques to prepare data.

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Technical Skills

Languages Python, JavaScript, Bash, C++, Java

Frameworks PyTorch, Tensorflow, Swagger, React

DevOps Docker, Kubernetes, Nginx

Cloud GCP, Azure

Databases MongoDB, Postgress, Redis

Markup L^AT_EX, HTML, CSS, Markdown

Misc Git, Linux, Clubhouse, Jira, Jupyter

Education

B.S Computer Engineering Purdue University

West Lafayette, Indiana

2014 — 2018

Multi-core Processor System Verilog

- * Implemented a synthesizable multi-core processor for processing MIPS assembly language in SystemVerilog.

Automated Nerf-Gun Turret

- * Engineered a turret gun that detects human targets and shoots Nerf darts at them.
- * Implemented human-target detection with MobileNetSSD and OpenCV.

Certificates

Natural Language Processing with Deep Learning

Stanford University, CS224N

October 2020 — December 2020

- * Developed a Neural Machine Language Translation model using PyTorch.
- * Implemented encoder and decoder networks using LSTM and CNN layers for processing out-of-vocabulary words.

Interests

- * Soccer
- * Guitar
- * Chess