

# 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.

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## Work Experience

### Nlomatics

#### NLP Engineer

New York, NY — October 2019 - April 2021

- \* 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.

## Certificates

### Natural Language Processing with Deep Learning

Stanford University, CS224N

October 2020 — December 2020

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

## 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.

## Technical Skills

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

**Frameworks** PyTorch, Tensorflow, Swagger, React

**DevOps** Docker, Kubernetes, Nginx

**Coud** GCP, Azure

**Databases** MongoDB, Postgress, Redis

**Markup**  $\text{\LaTeX}$ , 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.

## Interests

- \* Soccer
- \* Guitar
- \* Chess