# 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

### Nlmatics

**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.

### 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

**Cloud** GCP, Azure

**Databases** MongoDB, Postgress, Redis

**Markup** 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