Reshav Abraham

Full Stack Maching Learning Engineer

reshavabraham@gmail.com (908)-731-1426
reshav-abraham 195 Underhill avenue, Brooklyn, New York, 11238

About me

Passionate software engineer with experience in Full Stack Development and Machine Learning. Experience building backend API's, Frontends. Experience with training and serving Machine Learning models. Persistent worker with a positive attitude and always looking for a new challenge.

Work Experience

Narmi
Software Engineer New York, NY May 2021 - Present

Narmi is a medium sized company that has been around for 5 years that offers digital account opening and digital banking to mid-teir sized credit unions and banks.

- Integrated multiple banking cores which has helped the company grow and expand its customer base.
- Managed expectations with implementation team to provide clients realistic and accurate timelines.
- Contributed to Narmi's Design System. This is an open source project consisting of front-end design copmonents using React, SASS. https://github.com/narmi/design_system
- Integrated with multiple third party APIs for check images and estatements. These APIs required knowledge of cryptogrophy and strong networking skills.

NLmatics
NLP Engineer New York, NY July 2019 - April 2021

NLmatics is an early stage startup that specialized in semantic document search. The product was used for analyzing Offering Memorandums for real estate and financial research documents.

- Developed a service to parse and index PDF documents with high fidelity. Implemented and tested document layout analysis algorithms to improve the classification of header, paragraph, and table text. This significantly improved the search quality of the product.
- Lead On-Prem installations for clients and customized deployments for restrictive environments. Prepared installations by simulating client environments. Designed deployment scripts for regular updates and roll-outs.
- Designed Implemented a Search Flagging and Approval System to track regressions and improvements in search quality. This guided the development when testing new changes to the Search Engine pipeline.

Dell EMC
Software Intern Charlotte, NC May 2017 — August 2017

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

Technical Skills

Languages Python, Javascript, Java, Bash
Frameworks React, Django, Pytorch, Tensorflow, React Native
Markup HTML, CSS, Markdown
DevOps Docker, Kubernetes, Concourse, GitHub Actions
Cloud GCP, Azure
Databases MongoDB, Postgres
Project Management Zenhub, Jira, Clubhouse
Misc Git, Chrome Dev Tools, Web Scraping, Xcode

Education

B.S. Computer Engineering
Purdue University
West Lafayette August 2014 - December 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 with 3D printed parts, STM32F407VGT7, and Raspberry pi. The turret gun was controllable with a Wii nunchuck and could detect and shoot human targets with a nerf dart.
- Implemented human-target detection and tracking with MobileNetSSD and OpenCV.

Projects

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 Signal Processing techniques to prepare data.

Certificates

Stanford University, CS224N
- 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.