

Nishanth Solomon

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SUMMARY

Graduate student and versatile programmer with 2+ years of research in Natural Language Processing, Deep Learning, and work experience in end-to-end Development and Deployment of Software as a Service(SaaS) and seeking a full-time position as a software developer starting in May 2021.

EDUCATION

Master of Science in Robotics and Autonomous Systems Arizona State University, Tempe, AZ	August 2019 - May 2021 3.96/4
Bachelor of Engineering in Mechanical Anna University, Chennai, India	July 2013 - May 2017 8.11/10.0

TECHNICAL SKILLS

Programming Languages: Python, Java, JavaScript, Matlab, C/C++, Bash
Databases, and OS: PostgreSQL, MySQL, Windows, Linux/Ubuntu
Libraries: AllenNLP, PyTorch, TensorFlow, Keras, NLTK, spaCy, Scikit-Learn,
Tools, and Frameworks: Git (GitHub, GitLab), CherryPy, Flask, Elasticsearch

PROFESSIONAL EXPERIENCE

Zoho Corporation, Chennai, India <i>Software Developer</i>	May 2017 - July 2019
Natural Language Processing: Research and implementation of Neural Networks	
<ul style="list-style-type: none">Developed NLP models for Multi-class Classification, Named Entity Recognition, Language Detection.Analyzed Elasticsearch queries and improved the search quality by introducing the shingle analyzer.Organized client meetings and defined functional and technical requirements.	
DevOps: Responsible for deploying and scaling REST APIs and maintaining servers in 4+ data centers.	
<ul style="list-style-type: none">Delivered NLP models as micro-services and maintained a network of 50+ Linux servers with 99.9% up-time.Configured PostgreSQL, designed table models, formulated access APIs and implemented full-text search.Managed GitLab repositories and permissions and created a chatbot with webhooks to keep the team updated.	

PROJECTS

AI12 Reasoning Challenge <i>Arizona State University</i>	February 2020 - April 2020
<ul style="list-style-type: none">Initiated Information Retrieval and Prediction modules with Elasticsearch and language models.Implemented code to support GPU inferencing and reduced the prediction time by 1/10th.Reviewed the failed cases and implemented new methods to increase the accuracy by 15%.Trained the XLNet Model on the RACE dataset using Google Colab and experimented with new models.	
Question Answering System <i>Zoho Corporation</i>	January 2019 - May 2019
<ul style="list-style-type: none">Deployed a system to automatically answer FAQs from a set of predefined FAQs stored in PostgreSQL.Created REST APIs, automated API testing using postman runner, and interfaced with clients.Designed tables, configured databases, and provided support with maintenance and documentation.Coordinated with support engineers, to replace the monotonous work of answering fundamental questions.	
Industry Classification <i>Zoho Corporation</i>	September 2018 - December 2018
<ul style="list-style-type: none">Constructed a model using AllenNLP to classify free-text documents into predefined categories.Assessed the data, improved the cleaning pipeline, and experimented with classification techniques.Re-engineered the problem to improve performance and achieved about 91% accuracy to predict 45 classes.Increased the speed of cleaning the data by optimizing and implementing parallel processing in production.	

WORK EXPERIENCE

Arizona State University, Tempe, AZ <i>Research Aide</i>	August 2020 - Present
<ul style="list-style-type: none">Extracted moderation rules from Reddit emails using pandas and TF-IDF vectors after preprocessing.Executed data cleaning methods using spaCy, textacy to extract information from the Reddit dataset.Converted classification of content moderator emails to the rule violated into a BERT model.Compared moderation emails and compiled methods to build trust in people to accept AI moderated emails.Retrofitted a bag-of-words model to find Political Polarization using Reddit User data.Experimented with tuning a neural network to classify users based on their interaction with the subreddits.	