Nishanth Solomon

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Education

- **Arizona State University** — Tempe, USA
  Master of Science in Robotics and Autonomous Systems; — *Aug. 2019 – Apr. 2021*
- **Velammal Institute of Technology, Anna University** — Chennai, India
  Bachelor of Engineering in Mechanical; (8.11/10.0) — *Aug. 2013 – Apr. 2017*

Experience

- **Zoho Corporation** — Chennai, India
  Member Technical Staff - NLP - Artificial Intelligence — *May 2017 - July 2019*
  - **Neural Fine Grained Entity Type Classification**: Built a Bi-directional LSTM with Attention Named Entity Recognition system that can locate and classify named entity mentions in unstructured text into 108 pre-defined categories with subtypes.
  - **Language Detection**: Trained a single layer Neural Network model using bag of N-gram features to detect the language of the given text (trained for 97 languages).
  - **Text Classification**: Developed a model that classifies free-text documents into predefined categories by training a Bi-Attentive Classification Network(BCN) using contextualized word vectors.
  - **Chat Sentiment Analysis**: Built a Neural Network model for Chat Sentiment Analysis and won first place in Machine Learning Hackathon.
  - **DevOps**: Designed, developed, tested, deployed and supported REST API's to expose the trained NLP models as micro-services.
- **Zoho Corporation** — Chennai, India
  Internship — *Jan 2017 - Mar 2017*
  - **Docker Volume Plugin**: Implemented docker volume plugin which enables engine deployments to be integrated with external storage systems and data volumes to persist beyond the lifetime of a single docker host.

Publications

- "Accident Averting System". In *International Research Journal of Automotive Technology (IRJAT)*, pages 9-15, 2018.
- "Autobot for Precision Farming". In *IEEE International Conference on Innovations in Electrical, Electronics, Instrumentation and Media Technology (ICIEEIMT)*, pages 1-6, 2017.

Academic Projects

- **Adaptive Cruise Control**: (ongoing) Developing a system by integrating Sonars, Arduino, Raspberry Pi, New Eagle Controller with an existing autonomous ground vehicle (AGV) to implement adaptive cruise control.
- **Accident Averting System**: Developed a system that averts accidents, that occur while overtaking in two-way roads by controlling the vehicle through automatic braking and temporary steering lock system.
- **Autobot for Precision Farming**: Built a robot which is used for constant surveillance and investigation of the root cause for illness and gives primary treatment to the affected plants. It is a method of precision farming.
- **Design of STOVL Automobile**: Designed and simulated an automobile with an engine powered by modified F135 Pratt & Whitney engine shaft driven lifting mechanism for Short Take-Off and Vertical Landing.

Technical Skills

Languages: C, C++, Python, Java, Arduino, Matlab
Database: PostgreSQL, MySQL
Web Technologies: REST API
Tools: Creo, NX-CAD, Solidworks