

Abhishek Nilesch Shah

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Experience

IBM Watson

NEW YORK, NEW YORK

Senior AI Software Engineer

Jun '17 – Present

- Designed and built human agent integration(LivePerson) with Watson Assistant which is hosted as a Beta Feature on Watson Assistant Platform.
- Implemented microservices for “Show Recommendations” feature hosted as a part of Watson Assistant hosted on IBM Cloud to enable premium and plus plan users to bootstrap conversational agents by searching chat logs.
- Implemented tools to support content management and curation across 6 languages and 4 industrial domains hosted as part of Content Catalog in Watson Assistant.
- Enhanced score of a semantic(AMR) parsing task using that beat previous state of the art system(print below).

IBM Watson

AUSTIN, TEXAS

Software Engineer Intern

Jun '16 – Aug '16

- Implemented a system for analyzing risks by comparing performance of two relation extraction systems of Watson and proposed two new hybrid models for the delivery team.
- Designed backend application with enhanced retrieval capability that helps solution architects and cloud practitioners to search important documents.

Hewlett-Packard (HP)

BANGALORE, INDIA

Research and Development Engineer

Aug '14 – Jun '15

- Implemented a proof of concept for task of developing independent test framework for firmware code of printers using C# and CIL, scaling it to a mechanism that enabled to perform more than 1000 unit tests.
- Managed SNMP services of the System Framework of large scale enterprise Laserjet HP Printers.

Information Retrieval Lab, DA-IICT

GANDHINAGAR, INDIA

Research Assistant

May '13 – May '14

- Designed, implemented and analyzed Temporal Information Retrieval Engine and Temporal Intent Classification system for NTCIR Workshop. (The classification system showed 2nd best results.)
- Implemented test framework for data extraction to analyze language understanding of non-native user(thesis).

CheckDeck

GANDHINAGAR, INDIA

Software Engineer Intern

May '12 – Jun '12

- Designed and implemented search module of News Retrieval System as a part of the contribution in initial phase of the startup using Apache Solr Framework tested on 200-300 queries.
- Implemented clustering module of news that was shown as categories of news in the initial version of application.

Education

New York University (NYU), Courant Institute of Mathematical Sciences

NEW YORK, NEW YORK

M.S., Computer Science (3.89/4.0)

Sep '15 – May '17

Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT)

GANDHINAGAR, INDIA

B.Tech., Information and Communication Technology (8.08/10.0)

Aug '10– May '14

Publications

- Neil Mallinar, **Abhishek Shah**, TK Ho et. al. : Iterative Data Programming for Expanding Text Classification Corpora, Paper accepted at IAAI hosted with AAAI, 2020 (Co-presented at AAAI, New York, NY, US, 2020)
- Tahira Naseem, **Abhishek Shah** et. al.: Rewarding Smatch: Transition-Based AMR Parsing with Reinforcement Learning, Paper accepted at ACL 2019 [pdf]
- Neil Mallinar, **Abhishek Shah** et. al.: Bootstrapping Conversational Agents With Weak Supervision, Paper accepted at IAAI hosted with AAAI, 2019 (Co-presented at AAAI, Hawaii, US, 2019) [pdf]
- **Abhishek Shah**, Dharak Shah, Prasenjit Majumder: Andd7 @ NTCIR-11 Temporal Information Access Task, NTCIR, Japan, 2014 [pdf]

Skills

Programming Languages: Python, C++, Java, C#, C, Scala, Javascript(using Typescript), Groovy

Frameworks and Libraries: PyTorch, DyNet, Spacy, ElasticSearch, Apache Kafka, Node.js, MongoDB, Protobuf, Snorkel, Pandas, Sklearn, IBM (Deep Learning as a Service, Cloud Object Storage, Cloud Functions), Kubernetes, ScyllaDB, PostgreSQL

Tools and IDEs: Vim, Tmux, PyCharm, Git, IntelliJ, Visual Studio, Jenkins

Awards: Received IBM Patent File and Plateau award (Given for filing 4 or more patents.)