# Abhishek Nilesh Shah

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## Experience

*IBM Watson*                                                        New York, New York
**Software Engineer**                                                *Jun '17 – Present*
- Implemented microservices in "Show Recommendations" feature hosted as a part of Watson Assistant service hosted on IBM Cloud.
- Implemented tools to support content management and curation across 6 languages and 4 industrial domains hosted as part of Content Catalog in Watson Assistant.

*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 for Enhanced Information Retrieval Engine for Watson Practitioner Assistant using Bluemix services.

*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)            2010–2014

## Publications

- 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]

## Patents

- T.K. Ho, **Abhishek Shah** et. al.: Intent Authoring Using Weak Supervision and Co-Training for Automated Response Systems [P201807796] (Filed 2018)
- **Abhishek Shah**, Tin Kam Ho: A Method for Creating Compact Example Sets for Intent Classification [P201807725] (Filed 2018)
- **Abhishek Shah**, Tin Kam Ho: Class balancing methods for Intent Authoring using Search [P201807796] (Filed 2018)

## Skills

**Programming Languages:** Python, Java, C#, C++, C, Scala, Javascript, Groovy
**Frameworks and Libraries:** PyTorch, TensorFlow, DyNet, ElasticSearch, Apache Lucene, Apache Kafka, Kubernetes, IBM Cloud Functions, IBM Deep Learning as a Service (DLaaS), MongoDB, Jenkins, GRPC, Snorkel, Pandas, Scikit-Learn, Mono-Cecil
**Tools and IDEs:** Vim, Tmux, PyCharm, Git, IntelliJ, Visual Studio
**Relevant Courses:** Distributed Representations in Natural Language Processing(NLP), Statistical NLP, Machine Learning and Computational Statistics, Web Search Engines, Computer Vision, Graphics Processing Units(GPU), Monte Carlo Methods, Languages in India and Language Mapping, Information Retrieval