Ashish Baghudana

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EDUCATION

VIRGINIA TECH
M.S. in Computer Science
May 2019 | Blacksburg, VA
GPA: 4.00 / 4.00

BITS-PILANI
B.E. in Computer Science
B.Sc. + M.Sc. in Biological Sciences
Jun 2016 | Goa, India
GPA: 8.98 / 10.00

COURSEWORK

Statistical Machine Learning
Search Engines and Text Mining
Advanced Parallel Computation
Data Mining (UG)
Artificial Intelligence (UG)
Software Engineering (UG)

TEACHING ASSISTANT
Computer Systems
Microprocessors and Interfacing

SKILLS

LANGUAGES
Python • Java • JavaScript • Bash

TECHNOLOGIES
GCP & AWS • Docker • Consul
Terraform • Apache Mesos • Apache
Aurora • MongoDB • PyTorch

SCHOLARSHIPS

2017	U.S.A.	Virginia Tech M.S. Tuition Waiver
2014	India	IAS Fellowship
2011	India	INSPIRE Scholarship
2011	India	CBSE top 0.1% certificate

INTERESTS

Volunteer at TEDxTUM 2016
Curator at TEDxBITSGoa 2014
Electronic Keyboard - 5th Grade, Trinity College of Music

WORK EXPERIENCE

FACEBOOK | Software Engineering Intern - NLP/Dialog
May 2018 – Aug 2018 | Menlo Park, CA
Key Technologies: PyTorch, Hacklang (PHP), React

- Developed a neural coreference resolution system to link different noun phrases using PyTorch
- Improved F1-score by 16% over the existing rule-based system

PAYPAL | Software Developer - PaaS
July 2016 – July 2017 | Chennai, India
Key Technologies: Apache Mesos & Aurora, Docker, Java, Consul, Terraform

- Developed a cloud orchestration platform to provision Apache Mesos clusters across GCP, OpenStack and AWS using Java, Angular and MongoDB
- Designed and implemented a Chaos Monkey framework to test resiliency of the infrastructure by proactively introducing failures
- Improved resource efficiency of infrastructure and brought down provisioning times from 3 hours to <20 minutes

PAYPAL | Software Development Intern - PaaS
Jan 2016 – Jun 2016 | Chennai, India
Key Technologies: Docker, Python, Tornado, MySQL, Redis

- Developed and deployed a ReST service to promote PayPal microservices from QA to Production
- Demonstrated a proof-of-concept to run multiple microservices on the same VM by dockerizing them

RESEARCH AND COURSE PROJECTS

MEDICAL QUESTION ANSWERING | Virginia Tech
Implemented a question-answering system on medical articles collected from Medline and Patient.info using DrQA. Modified the retrieval system from TF-IDF to Doc2Vec for improved accuracy.

INFORMATION RETRIEVAL | Virginia Tech
Developed a state-of-the-art information retrieval and text analysis using PySpark, HBase, and Solr in support of the GETAR project. Led a team that worked on topic analysis and clustering of tweets and webpages about Solar Eclipse 2017 and Hurricane Irma.

BIO-NLP | Technical University Munich
Created nalaf, a BioNLP library that performs named entity recognition and relationship extraction using conditional random fields and support vector machines respectively.

PERSONAL PROJECTS

Question Classification
Classifying questions as What, When, Who and Yes/No questions using a Deep Neural Network

Topic Modelling
Topic Modelling using Infinity-Grams to detect different kinds of topics in the Wikipedia data