

Rishabh Bhardwaj

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EDUCATIONAL QUALIFICATIONS

Year	Degree	Institution	Performance
2014-present	B.Tech	Indian Institute Of Technology Kanpur	8.3/10.0
2014	AISSCE, XII (CBSE)	Delhi Public School Ghaziabad, Ghaziabad	93.8%
2012	AISSCE, X (CBSE)	K.V. Kamla Nehru Nagar Ghaziabad	10/10 CGPA

EXPERIENCE

Amazon Development Center, Bangalore, India - SDE I in Outbound Marketing Automation Team

Common Automated Framework for Engagement (CAFE System)

Aug'18 - Present

- As a part of six member team owning distributed Big data processing services, I was involved in development and maintenance of channel agnostic advertisement platform, to automate personalized notification programs and handle millions of marketing notification generations for Amazon customers on a daily basis.
- Designed the logic to migrate processes running on Redshift SQL to Hive on Spark EMR Clusters.
- Involved computing through Apache Hadoop and Spark and worked on various technologies like AWS EMR, SWF, S3, DynamoDB, Redshift, hive, sql etc

Amazon Development Center., Bangalore, India - Software Development Intern

Evaluation of Reviews Appropriateness for Outbound Marketing

May'17 - Jul'17

Project aimed at building a service to rank consumer reviews of a product in order of their relevance for a customer.

- Proposed and implemented a method based on Information Retrieval Technique which uses tf-idf score and readability score of review texts. Created python package using nltk to generate ranked list of reviews. Used AWS's Dynamodb and S3 to get and store data. Created Java Service which first fetches reviews of a product and then uses the python package to rank the reviews.

PROJECTS

Automatic Detection of Slide transition in lecture videos

May'16 - Jun'16

- Developed a system to automatically detect transition points of lecture slides in a lecture video. Proposed method involves using SIFT algorithm for comparing video frames based upon a threshold. Used OpenCV library of python.

Visual Question Answering

Jan'18 Mar'18

- Course Project in NLP under prof. Harish Karnick aimed at implementing and comparing the performance Neural Networks models (FNN and RNN) on the famous VQA challenge. Implemented and trained three variation of models by varying hyperparameters and word embeddings and compare the results with the state of the art models.

YAHS: Yet Another HTTP-proxy Server

Oct'17 Nov'17

- Created a concurrent HTTP proxy server that can serve HTTP GET, POST and HEAD requests and can evaluate all the incoming requests and filter out the illegal ones along with the feature to add rules for filtering.

Compiler for C Language

Jan'17 Apr'17

- Course Project in Compiler Design under Prof. Amey Karkare. Developed and designed compiler for C Language using Python as Intermediate Language. Implemented logic for giving syntax errors, dynamic memory allocation, a lexical scoping system, a type system and type checking. Final code was generated in MIPS which supports efficient register allocation, optimum expression calculator, implementation of basic C functionalities like put(), get(), array, recursion etc.

AskApp: QA forum using Google Firebase

Jan'17 Apr'17

- Course Project in Principles of Databases System. Developed an Android App where user can login using their personal email id or Gmail Id and can ask or answer questions. Used Google Firebase Realtime Database for storing the data and the login features.

OTHER PROJECTS

Sentiment Analysis of Movie Reviews

Feb'18 - Feb'18

Operating Systems: Extended the standard system call library of NachOS

Jul'16 Nov'16

Efficient Crew Scheduling by using set covering and column generation approach

Jul'17 Nov'17

Antaragni'15 Website (July'15 - Nov'15) and ACP IIT Kanpur Website (Aug'14 - Jan'15)

An exclusive study of Cops and Robber Game on Graphs

July'15 - Nov'15

TECHNICAL SKILLS

Programming Languages: C, C++, Java, Python

Web Development: HTML, CSS, Javascript, PHP

Software and Tools: AWS S3, DynamoDB, SWF, IAM, RedShift, Lambda, CloudFormation, HiveQL, LaTeX, Git, SQL

OS: Windows, Linux (Ubuntu)

ACHIEVEMENTS

- Secured an All India Rank of 172 in JEE Advanced 2014 given by about 150,000 shortlisted candidates (99.89 percentile).
- Secured an All India Rank of 3657 in JEE Main 2014 among 1,500,000 students (99.76 percentile).
- Secured All India Rank 422 in Kishore Vaigyanik Protsahan Yojana (KVPY) 2014.
- Secured State wise top 1% in NSEC (Chemistry Olympiad).

POSITION OF RESPONSIBILITY

Web Master, SIGML, IITK

Dec'15 - Dec'17

Web Executive, Antaragni 2015, IITK

July'15 - Nov'15

Junior Web Executive, Alumni Contact Program,