

Rishika Bera

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EDUCATION-

ARIZONA STATE UNIVERSITY, United States

CGPA: 3.5/4.0

Master of Science in Software Engineering

Fall 2019- Present

JAYPEE INSTITUTE OF INFORMATION TECHNOLOGY, India

CGPA: 7.4/10

Bachelors of Technology in Computer Science

August 2012-July 2016

TECHNICAL SKILLS

Programming Languages- Java, C, C++, ASP.Net, Python | **Front End Technologies-** HTML5, CSS3, JavaScript, jQuery, Bootstrap

Back End Technologies- MySQL, NodeJS | **QA Automation Tools-** Robot Framework | **Version Control:** GIT

PROFESSIONAL EXPERIENCE

1. Senior Systems Engineer | Infosys Limited, India | Full-Time March, 2017- June, 2019 (2 year 3 months)

Worked with AT&T as clients to provide Wi-Fi to various outlets.

- Scripted tasks for debugging and automation using Python and Selenium tool using Robot Framework.
- Fixed bugs, maintained the AT&T portal and enhanced implementation in regular intervals which significantly increased the speed by 30%.
- Reviewed and analyzed security logs to determine and remove network threats using X-paths.
- Developed test cases and test plans and documentation and implemented each test case of modules.
- Created manuals and mentored six training sessions to educated freshers.

2. Career Peer of Global Engagement | ASU Career and Professional Development Services | Part-Time August 2020- Present

- Lead one-on-one career advising appointments with undergraduate and graduate students to provide career related assistance and help them identify the next concrete steps and develop career strategies in their career development process.
- Assist in organizing and hosting various CPDS events, workshops and career fairs and also advise ASU alumni on how to increase attendance of job seekers in their workshop.

3. Teaching Assistant | Information Technology Grader | Arizona State University | Part-Time February 2020-April 2020 (3 months)

- Assisted professor in grading Labs, Assignments, Exams online in the online course-IFT 302(Foundations of Information and System Security).

4. Systems Engineer Intern | Infosys Ltd. October, 2016- March, 2017(6 months)

CLOTH SIMULATION

- Implemented a research paper on physical-based modelling and 3-D computer graphics realism in C++. Achieved how a piece of cloth of any texture, weight, thickness, porosity behaves realistically in real time when it is in contact with an external force.

5. Full Stack Development Intern | Microsoft Technology Associate (MTA) June, 2015-July 2015 (2 months)

- Designed and developed a web application- 'Food Portal' in ASP.Net in C#. Some of the features were to view menu (Items offered), Stores (Location of all the Outlets), Order Placement so that the user can order online, Hall Booking for small functions such as Birthday parties for kids and job hiring (Provides user the option for Working at Outlet). Used HTML, CSS, JavaScript in Front End and PHP, Microsoft SQL Server in backend.

ACADEMIC PROJECTS

1. CONTEXTUAL CHATBOT USING TENSORFLOW Summer 2020

- Used Intent Classification and Natural Language Processing libraries like nltk in Python.
- Used TFLearn (higher-level API to TensorFlow) for deep learning neural network by creating different layers.
- Pre-processed the data and built the neural network model to make predictions and generate responses to chat back and forth with the user.

2. MOVIE RECOMMENDATION ENGINE Fall 2020

- The system uses Scikit-Learn in Python, takes in a movie that a user currently likes as input and then it analyses the contents like storyline, genre, cast, director etc. of the movie to find out other movies which has similar content.
- Ranks similar movies according to their similarity score and recommends the most relevant movies to the user.
- Used content-based filtering and cosine similarity method to build the engine.

3. SENTIMENT ANALYSIS USING NATURAL LANGUAGE PROCESSING Spring 2020

- Used text classification technique that analyses the text input and interprets whether the underlying sentiment is positive, negative or neutral.
- Plotted a emotions bar chart using matplotlib where all the emotions with its respective percentage is displayed.
- Used NLP concepts like Tokenisation, Lemmatisation, stop words etc.

4. FRONT END WEB DEVELOPMENT Fall 2019

- Designed a responsive website for adoption of dogs using HTML, CSS, Javascript, Bootstrap, JQuery

5. EXTRACTING PHYSICAL PROPERTIES OF AN OBJECT USING A VIDEO Fall 2015

- Created code for estimating physical parameters of an object just by inputting 2D video using Image Processing and Computer Vision techniques.
- Assisted the team in using the Kinect for capturing real-time videos (color image plus depth maps).
- Co-ordinated with 3 other people in executing the program and led the team in completing the project achieved.

6. DESIGNED COMPILER AND A VIRTUAL MACHINE FOR OUR NEW PROGRAMMING LANGUAGE Spring 2020

- Implemented lexical analyzer, parser and a runtime environment.
- Worked with program compilation tools -ANTLR to recognize and translate a language into an intermediate form-Abstract syntax trees.
- I was responsible for creating the grammar file which constituted the entire syntax of our new programming language.