

Ujwal Pathak

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EDUCATION

Pace University, Seidenberg School of Computer Science and Information Systems

Master of Science (MS) in Computer Science | GPA: 3.77

University of Mumbai

Bachelor of Engineering (BE) in Computer Engineering | GPA: 3.8

New York, NY

Expected May 2019

Mumbai, India

May 2016

TECHNICAL SKILLS

Programming Languages:

Java, Python, C, C++, Php, Javascript, HTML5, CSS3, Keras, Tensorflow.js

Databases /Technologies:

SQL, MySQL, MongoDB, Hadoop, Hive, Drupal, Docker, Amazon Web Services, Jira, Asana, Google Cloud

Software Testing /CI:

Selenium, QTP, WebDriver, LoadRunner, Protractor, Nightwatch.js, JUnit, TestNG, Jenkins, Circle CI, Bamboo CI

EXPERIENCE

AutonomicSolutionsLLC

Software Engineer Intern

Chantilly, VA

Jun 2018 - Dec 2018

- Created a customized Content Management System (CMS) application using Drupal to serve as a prototype for Virginia Department of Education
- Implemented a Continuous Delivery pipeline using Docker and Jenkins, minimizing the deployment time by up to 30 minutes.
- Designed selenium scripts in Junit-Maven framework to test responsiveness of the application, enhancing the page load time by up to 30%
- Incorporated Amazon CodeStar functionalities to build a robust server-less web application prototype for the company

BrowserStack

Selenium Specialist

Mumbai, India

Jun 2016 - Jul 2017

- Developed test scripts using selenium to test new releases of the product and monitored the performance of the application using LoadRunner, thereby reducing usability issues and achieving a stability of 97%
- Interacted with clients from Fortune 500 companies to help integrate their test suites with BrowserStack in real-time and resolved the clients' product-related queries in a timely manner
- Designed appropriate documentations for complex use cases like master-slave environment in Jenkins and to execute tests from behind an NTLM proxy, resulting in a standardized on-boarding process

Backbenchers Designs

Software Engineer Intern

Mumbai, India

Jul 2015 - Aug 2015

- Collaborated with a lean team to build data-driven websites using Php and AngularJS
- Streamlined the process of data storage by migrating from traditional RDMS storage to MongoDB, enhancing the user load capacity by up to 25%

ACADEMIC PROJECTS

Machine Learning: Analysis of Mortgage Credit Risk (python, google cloud)

Sep 2018 - Dec 2018

- Implemented discretization on HMDA datasets and created a preprocessing pipeline to split the data into train (288000) and test (80855) samples
- Performed end-to-end data warehouse implementation through Google Data Proc clusters, reducing the data-retrieval process by up to 30%
- Improved Mortgage Approval Detection using 8 different Classification models and performed optimization, hyperparameter tuning on best 4
- Finalized logistic regression, as it achieved highest accuracy of 85.84%, f1 score of 0.87 and the lowest training time of 64.01 seconds

Deep Learning: Image classification using Transfer Learning (python, keras, CNN)

Nov 2018 - Nov 2018

- Performed data augmentation on flowers dataset using keras ImageDataGenerator to enhance the size and quality of the training set
- Designed an AutoML style CNN classifier and used VGG16 as a transfer learning base to optimize the model by 15%

Text Classification: Gutenberg classifier (python, keras, tensorflow.js)

Oct 2018 - Nov 2018

- Retrieved over 10 books using Project Gutenberg API and incorporated regular expression logic to construct list of sentences
- Programmed one-hot encoding using keras Tokenizer and built an end-to-end application using a RNN model with LSTM layers and tensorflow.js

Software Development: IoT device data monitoring application (selenium, maven, jenkins, python, hadoop)

Mar 2018 - May 2018

- Developed automation scripts in TestNG and configured the execution via Jenkins CI server to achieve real-time data gathering
- Implemented shell scripts to migrate the data from local machine to big data warehouse Hadoop to scale up the data storage capacity
- Performed data cleaning, munging and exploration using pandas and identified thresholds /peak points for the activity data over a timeline

Data Analysis: Stock data analysis (python)

Nov 2017 - Dec 2017

- Extracted live stock data using pandas_datareader and implemented broadcasting technique to outline best performing securities in last 10 years.
- Utilized matplotlib library to construct knowledge graphs in order to project company's return of investment (ROI) over timeline.

Parallel Computing: RESTful web service (docker, flask, python)

Nov 2017 - Dec 2017

- Designed and implemented a flask-based web application with JSON database, allowing users to search through the data via API requests
- Incorporated multiple containers under a docker to fire API request through individual container; thereby reducing the response time by 15%

Web Development: Real-time blog site (reactJS, html, css, QTP)

Nov 2017 - Nov 2017

- Developed a single page web application using reactjs and socket.io to emit blogs in real-time to the client, reducing the rendering time by 40%
- Incorporated QTP scripts for usability testing of the application and built test reports to analyze the bugs.

VOLUNTEER WORK

RESCUE FOUNDATION (Human Trafficking Awareness)

Mumbai, India

Event Coordinator

- Provided technical support for all events hosted by the organization by auditing technical equipment.