POOJA AGARWAL

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Portfolio (https://poojaag18.github.io)

EDUCATION

Stony Brook University, New York   Jan 2019 - May 2020 (Expected)

Master of Science, Computer Science

Courses - Algorithms, Introduction to Computer Vision, Visualization, Principles of Programming Languages, Theory of Computation

Institute of Technical Education and Research, Bhubaneswar, India   Aug 2010 - May 2014

Bachelor of Technology, Electronics and Communication Engineering

TECHNICAL SKILLS

Programming Languages	Python, PHP, HTML, JavaScript, CSS, C#, R Programming
Libraries, Frameworks & CMS	Angular, Drupal, JQuery, RestAPI, D3.js, NodeJs
Database	MySql, ElasticSearch, MongoDB
Deployment Tools & Processes	Git, JIRA, Unit Testing, Agile Process

WORK EXPERIENCE

Accenture

Application Development Analyst   June 2017 — Jan 2019

Angular :   Simplified the ticket resolving process by developing an application using angular to track the progress and details of the complaint tickets integrated with workflow functionality to monitor its flow until it is reached in resolve state.

R :   Reduced the complaint tickets count by performing analytics, text mining and prediction using R programming. Developed an interactive website using shiny package charts for visualization along with the option of saving the visualized components.

Python :   Saved time for writing code for different database queries by building a wizard which will help to connect, edit or add the database connections to different types of databases from UI.

Drupal :   Successfully automated Drupal tasks of fixing common coder issues by 70% using a simple script command and created custom Drush command for automating the tasks of deleting unnecessary revision field present in the database.

C# :   Optimized search and filter time response from front end by integrating Elastic Search with the application and using C# for querying and developing RestAPI's for data transfer.

MongoDB :   Automated repetitive CRUD tasks of MongoDB on high volume of data by creating a script using C# and XML configuration.

Tata Consultancy Services

Software Engineer   June 2014 — May 2017

Drupal :   Developed and maintained websites on Drupal, handled CMS configuration, site migration, multilingual websites and querying Drupal MySQL database with optimized performance and best coding standards.

Angular JS: Worked on developing a website with AngularJS and NodeJS in frontend, integrated with Drupal and yammer to fetch posted blogs, stories along with Like and Comment feature.

Web Applications: Implemented multiple responsive web applications using Bootstrap and Front End Web technologies.

PROJECTS

Terrorism Visual Analytics (Academic) – (https://github.com/PoojaAg18/Terrorism_Analytics**) -** Created a D3-based interactive visual interface which would allow users to gain insight on terrorist activities around the world. Technology: Python, D3, HTML, CSS, JQuery. The major highlights were – Prediction of casualties using decision tree model and Dataset of size more then 180000 which includes Data Cleaning, Dimension Reduction, Text mining

Drupal Module and Theme Generator (Open Source) – (https://github.com/PoojaAg18/generator-drupal-module-theme**) -** Created npm module in Github - 'generator-drupal-module-theme' integrated with yeoman and optimization tools like GruntJS to automate Drupal modules and theme creation task. Technology: PHP, JavaScript.

Rethinking Electronic Fetal Monitoring to Improve Perinatal Outcomes and Reduce Frequency of Operative Vaginal and Cesarean Deliveries (Ongoing Research)- Worked on building a large, de-identified MySQL database that will store the decoded data from intrapartum signals (FHR and uterine activity) and physiological data related to mother and fetus to capture the dynamics of fetus well-being on a minute-by-minute basis. Technology: MySQL, Python. Future work - Investigating machine learning methods for classification of intrapartum signals that has the potential to significantly outperform the accuracy of contemporary methods.

ACCOMPLISHMENTS

- **Teaching Assistant** for CSE 303 (Theory of Computation) at Stony Brook University
- **Young Achiever Award** - Awarded for diverse contributions and participation, highest customer satisfaction rating for all software solutions delivered, engendered new ideas, automation, and involvement in multiple technology stack projects.
- **On the Spot Award** – Received 5 Awards due to numerous client appreciations for developing a website.
- **Team Lead** at Tata Consultancy Services Initial Learning Program - Developed a Food ordering website in Java using waterfall model.