SHIVAM VERMA

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SUMMARY

Software Developer, skilled in Python/Django, Java, and SQL with an experience of over 2 years in the field of software engineering with a comprehensive background in web application development, and maintenance with extensive knowledge in the field of data analysis, visualization, business intelligence, database management, and Azure Cloud Services. Currently Seeking Internship Opportunities in Software Development from Summer 2019.

EDUCATION

MS in Software Engineering, Arizona State University, GPA: 3.78/4.0 **May 2020 (Expected)**

- **Coursework:** Data Structure and Algorithm, Web Application Programming, Foundation of Software Engineering, Software Agility

Bachelor of Technology in Computer Science, Jaypee Institute of Information Technology (India) **May 2015**

- **Coursework:** Machine Learning and Big Data Analytics, Artificial Intelligence, Data Mining

TECHNICAL SKILLS

- **Programming:** Python, Django, Java, SQL, HTML (Proficient) JavaScript, HTML, CSS, C#, R, React/Redux, PHP (Familiar)
- **Databases:** SQL Server, MySQL, Amazon Redshift (Proficient) PostgreSQL, MongoDB (Familiar)
- **Other Skills:** Object-Oriented Programming, Power BI, MSBI (Microsoft Business Intelligence Tools), Azure, Git, Scrum, Agile, RESTful APIs, Visual Studio, Eclipse, MacOS, Windows, Test Driven Development (Proficient) Tableau, Hadoop, NLTK, NumPy, Pandas, AWS, Linux (Familiar)

PROFESSIONAL EXPERIENCE

Software Engineer 2, MAQ Software (www.maqsoftware.com) **Mar 2016 – July 2018**

- Centralized data pull for more than 15 upstream sources by creating an automated data refresh application through SSIS.
- Processed data collected at data staging layer by writing stored procedures and storing data as facts and dimensions in SQL Datawarehouse.
- Created OLAP Multidimensional Cube (SSAS) to assist clients in Sales Trend Analysis through Metrics as WoW, MoM & YoY etc.
- Established release management using GIT and RM for automated backend production deployments with adherence to all SDLC principles.
- Interacted with clients to gather business requirements, modeled them into user stories and negotiated sprint plans for structured delivery process.
- Responsible for researching, replicating, performing root cause analysis and providing solutions to the data issues reported by the customer.

Business Intelligence Developer (Student Worker), University Technology Office at Arizona State University (uto.asu.edu) **Oct 2018 – Present**

- Created python/node.js scripts to collect metadata and used AWS lambda to invoke functions via handler objects thus helping the team to successfully migrate to a new platform.
- Worked on SQL procedure to create facts and dimensions to report the workspace usage of a user thus helped the team to create dashboards and identify the dormant users.

ACADEMIC PROJECTS

Movie Showtime Finder (http://showtimefinder.azurewebsites.net) **ASU, Fall 2018**

- Developed an intelligent web application (Python/Django) which analyzes the user data and maps it to the new releases according to the user interest and recommend movies by sending mail or text notifications.
- Developed content-based recommendation engine which suggests movies based on the similarity measure of the user selected movies.

Utilized: Python, Django, SQL, Numpy, Pandas, Scikit-Learn, OAuth Authentication, Docker, Azure Web App, JavaScript, HTML, CSS, Bootstrap

Linked Data Application for Vulnerability Analysis (https://srajangpt1.github.io/) **ASU, Fall 2018**

- Developed a linked application that analyses the semantic data associated with malware and vulnerabilities to generate actionable insights.
- Used CVE Descriptions, CVSS Parameters, CWE and CPE in conjunction with associated data from DBPedia pertaining to cybersecurity domain, thus helping the user to make decisions with regards to the efforts needed for vulnerability identification, mitigation, and prevention.

Sentiment Analysis of Customer Feedback (https://github.com/ShivamVerma920302/SetimentAnalysis/) **Dec 2018**

- Used a combination of NLP and Text Analytics to categorize opinions into negative and positive based on Logistic Regression classifier.
- Cleaned and prepared data by removing numbers, URLs, links, punctuations, stop words, dropping suffix and lemmatization.
- Compared and plotted the accuracy of the classifier on using unigram, bigram, and trigram.

Utilized: Python, NLTK, Numpy, Pandas, Scikit-Learn, Jupyter-Notebook

Django Web App Blog (https://shivamwebappblog.herokuapp.com/) **Jan 2018**

- Developed a web application using Python/Django Framework that allows the user to post, reply and edit blog posts.
- Created a production-ready REST API with Python and Django-REST-Framework, with endpoints providing the list of users, articles, and blog posts.
- Designed a scalable relational database using Azure SQL Database.
- Deployed app on Heroku server

Utilized: Python, Django, Django-REST-Framework, Azure SQL Database, Heroku, JavaScript, HTML, CSS, Bootstrap