Udit Pilania

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EDUCATION

Texas A&M University, Mays Business School*(GPA: 3.8/4.0)* College Station, Texas
Master of Science in Management Information System 2023

Jaypee University of Information Technology (GPA: 3.24/4.0) Solan, India
Bachelor of Technology in Information Technology 2019

EXPERIENCE

Public Policy Research Institute, TAMU College Station, Texas
Software Engineer Feb 2022 – May 2023
- Developed a **python** script to scrape 7000 records from the web, reducing task completion time from 3 weeks to 1 day
- Enhanced functionality of internal **web** tool using **C#** and **vb.net** to automate manual tasks and help with keeping, retrieving records
- Successfully took ownership of **5 websites**, driving code and program enhancements, to optimize performance and functionality
- Managed Windows-based production **environment**, ensuring smooth operations and high system reliability.
- Created detailed **documentation** for websites, covering architecture and functionality, improving onboarding and user understanding

Thales Noida, India
Software Engineer Aug 2019 – June 2021
- Developed **Spring-based** portal presenting **REST API** request-response from logs reducing **debugging** time from hours to minutes
- Automated build installation using **python** and **bash scripts** to reduce time of installation from hours to single click
- Implemented **Java** object **serialization** for efficient data transfer and persistence between distributed systems
- Remodeled **CI/CD** pipeline using **Jenkins** to automate deployment and test execution reducing time taken by 60%
- Mentored and trained five interns on **Python**, **Java**, **Jenkins**, **Jira**, and **Confluence** for a duration of 4 months

Software Engineer Intern Feb 2019 – July 2019
- Utilized **Angular** and **Spring** to develop multiple **end-to-end** features following **agile** development for Fortune 500 telecom clients
- Designed **Java**-based **REST API**, ensuring efficient data exchange and integration between various components of system
- Reduced **Jira** backlog by fixing 50+ bugs, showcasing effective **problem-solving** and **debugging** skills
- Prepared **test plans** and protocols, chose **JUnits** to write and execute new testcases to increase code coverage from 31% to 64%

PROJECTS

Pos Database Aug 2021
- Designed and implemented a **MariaDB** database for a point-of-sale (POS) system, enabling efficient and secure storage and retrieval of transactional data, resulting in increased system performance and reliability.
- Used **MariaDB** to perform **ETL** on **CSV** file while implementing **peer to peer replication** in relational databases using **galera**
- Extracted **JSON** files from **relational database**, transformed it using **python** to import in **NoSQL MongoDB** to be queried directly

Friendyfi Mar 2017
- A social networking website based on **servlets** and **JSP**, using **MySQL** database management system
- Implemented **multithreading** for messaging feature to optimize resource utilization, improving system responsiveness
- Implemented secure user **authentication** and **authorization** using **Java** security frameworks for enhanced **data protection**

Architecture Billing System Nov 2016
- A database project that handles the billing of the various architects working for a particular project using **MySQL**
- Created **SQL queries**, **stored procedures** to handle calculations, including fee structures, hourly rates, and project-specific billing
- Implemented a robust database schema and optimized **SQL** queries to efficiently store and retrieve architect billing data, ensuring data integrity and high-performance operation.

TECHNICAL SKILLS

Languages – Python, C/C++, Shell scripting, JavaScript, Java, Python, JavaScript, HTML/CSS
Databases – MySQL, MongoDB, MariaDB, Microsoft SQL server
Frameworks / Containerization – Spring Boot, Flask, Hibernate, React.js, Node.js, Docker, Kubernetes
Tools / Others – Amazon Web Services (AWS), REST APIs, **Linux**, Git, Jira, Postman, GitHub Actions, VSCode

TECHNICAL SKILLS

Certifications – Data Structures and C programming certification from NPTEL, Professional Scrum Master™ I (PSM I
Awards - Won **state level** innovation award for Special Shoe project, **Best performer** for THALES 2020s