TUSHAR YADAV

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PROFESSIONAL SUMMARY

- Computer Science Graduate Student at California State Fullerton, studying Advanced Database, Cloud Security and Software Development courses.
- Solution-focused middleware engineer with 4 years of prior experience in developing ETL pipelines and Web Apps.
- Extensive experience in using cloud services, relational databases, and backend frameworks. Two years of experience in leading diverse teams throughout all phases of the SDLC and building applications for pharmaceutical companies.

EDUCATION

California State University Fullerton, California, United States
Master of Science, Computer Science   *Aug 2023 - May 2025*

SRM Institute of Science and Technology, Chennai, India   *CGPA: 7.31*
Bachelor of Technology, Information Technology   June 2015 - May 2019

TECHNICAL SKILLS

- **Key Skills: -** Web application development, API development, Microservice architecture design, Database design Automation scripts, ETL Data Pipeline, Hadoop, Spark, Android Development, Linux, Communication skills

- **Cloud Services:** - Azure Functions, Azure Data Factory, Azure SQL Server, Azure App Service, Azure Redis, Azure Web Jobs, Azure Storage, AWS Lambda, AWS EC2, AWS SQS, AWS S3, AWS EMR., Security, web3, Enterprise

- **Tools and other Skills:** - Python, Excel, Power BI, JIRA, GIT, Docker, Terraform, PyCharm, SQL Server Management Studio, Postman, oAuth2, SSO, web scraping, unit testing, JWT, Flask, Django, Fast API, High charts, Android Studio, PostgreSQL, SQL, MongoDB

EXPERIENCE

ITC Infotech *(on contract at ZS Associates)*   *India*
Senior Backend Developer   *November 2021 – August 2023*

- Developed REST Web Services using Azure Functions and Flask to provide data from multiple data sources.
- Lead a team of various developers from backend and data engineering to develop the applications.
- Designed database model for capturing relationships and version history of products.
- Wrote Kafka producer and consumer scripts to send live stream data into various Kafka topics for handling 1000+ requests.
- Designed data factory pipelines to move data within different layers of database for reporting.
- Responsible for integrating SSO authentication to the web application using Azure oAuth2 services.
- Managed and developed services that trigger spark jobs on AWS EMR by providing EMR step details to EMR.

Larson and Toubro Technology Service   *India*
Software Engineer   *May 2019 - November 2021*

- Developed Python scripts by leveraging existing organizational-based knowledge and NLP-based platform to accomplish automation in data extraction to achieve 70% accuracy and saving 25hrs of manual work per week.
- Redesigned and structured client's data using MongoDB.
- Developed and maintained a scalable Data Lake Architecture to store 50m+ structured and unstructured records streaming every week.
- Extensively used ETL to transfer and extract data from source files and databases and load it to analytical tools.
- Detected and automated specific tabular data extraction in pdf by tableau library and exported it to a predefined report format to help reduce manual data entry processes by 40%.

SPI Cinemas   *India*
Intern   *June 2017 - July 2017*
- Responsible for designing wireframes for the company's upcoming website using Adobe XD and Figma.

PROJECTS

Crop Yield Prediction using Local Geographical Parameters and Machine Learning
- Developed an ML system utilizing regression algorithms to predict crop yields. Leveraged user-provided data (rainfall, soil erosion, temperature) and government historical crop data to assist farmers in crop selection.

Campus Food ordering App [Android]
- Created an Android app prototype for college students to pre-order or order food on campus. Utilized Android Studio with Firebase for data storage and notifications.

LEADERSHIP EXPERIENCE & RECOGNITIONS

- Lead a team of developers to build web applications for pharmaceutical companies at ZS Associates.   *2022*
- Recognized in ZS Associates for performing excellently and delivering high grade applications.   *2023*
- Technical Organizer for National Level Hackathon Fest at SRM Institute of Science and Technology.   *2017-18*
- I received 2 Spot Awards from Larson and Toubro Technology Services for automating data extraction. *2019-20*