**Tanmay Itkelwar**

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**TECHNICAL SKILLS**

**Programming Languages:** C#, Java, Python, C++, JavaScript, JSON

**Technologies:** AWS, CI/CD, REST API, Terraform, Kubernetes, Linux, Elastic Search

**Tools:** .Net Framework, Angular, Snowflake, Docker, Apache suite, Azure DevOps, Git

**Databases:** PostgreSQL, MySQL, Redshift, MongoDB, DynamoDB

**CERTIFICATIONS**

Applied Machine Learning Certificate **(Aug 2024),** AWS Certified Cloud - Practitioner **(Jun 2024)**

**WORK EXPERIENCE**

**The University of Texas at Dallas,** *Backend Web Developer – Student Assistant* May 2024 - Present

* Automated data backup and **code review** using **shell scripting** on Ubuntu, reducing manual workload by **30**%.
* Improved the **MySQL** database for the university to increasedata retrieval by **20%**.
* Created **Docker** images for testing environments on Docker **containers**, reducing setup timeby **35%.**

**Accenture,** *Full-Stack Software Engineer* Dec 2020 - Jul 2023

* Spearheaded the development of a serverless web application employing **Angular**, **.NET framework**, and **AWS** services for Accenture Spain's **11 locations**, improving contract tracking of **2000+** employees by **30%.**
* Enabled a smooth transition from legacy database system to **AWS redshift** with a **50% increase** in query efficiency.
* Managed and configured **Redshift** cluster, **AWS S3**, **IAM** access roles, and policies via **Terraform.**
* Enhanced system responsiveness by **30%** through the construction of a messaging layer between **8 microservices** leveraging the **Apache Kafka** framework and a Data Access Layer with **MySQL** and **MongoDB.**

**Accenture,** *Sofware Engineer - Intern* May 2020 - Dec 2020

* Implemented **CI/CD** pipelines using **Jenkins**, reducing deployment time and accelerating delivery cycles by **25%.**
* Automated email services using **Rest-API** in a **.NET application** within the Agile framework for **7000+** customers.
* Deployed **Docker** applications within **Kubernetes** clusters(**Amazon EKS**), achieving a **40%** reduction in downtime.
* Performed daily **PostgreSQL** database queries, handling **6000+** ServiceNow tickets.

**ACADEMIC PROJECTS**

**Data Eclipse AI:** [github.com/tanmay1501/DataEclipseAI](https://github.com/tanmay1501/DataEclipseAI)

* Developed a no-code data engineering tool using **Streamlit** to reduce data processing time by **40**%.
* Replaced Python Notebooks with an interactive UI to perform data **ETL** process with a few clicks of some buttons.

**Product Reviews Data Pipeline using Snowflake:** [github.com/tanmay1501/Amazon-Reviews-Data-Pipeline](https://github.com/tanmay1501/Amazon-Reviews-Data-Pipeline)

* Built an End-to-end **streaming data pipeline** for Amazon reviews to show the product's real-time performance.
* Automated ingestion pipeline using **AWS** **Lambda** and **S3** to collect raw **JSON** data of **1 million+ daily records**.
* Utilized **Snowflake** as a data warehouse to enhance query performance by **40%** for real-time aggregation.

**Guard-AI**: [github.com/tanmay1501/GaurdAI](https://github.com/tanmay1501/GaurdAI)

* Created an object detection service using the **Yolo DL** model to detect objects in a video with an **F1Score** of **86%.**
* Provided real-time **AI responses** for home safety and security on the objects detected via **Open AI API.**
* Increased the overall accuracy by **17%** using transfer learning and unfreezing layers on deep learning models.

**EDUCATION**

**Master of Science in Management Information Systems**,*The University of Texas at Dallas*  Aug 2023 - May 2025

**Honors**: UT Dallas Jungchan Hsieh Scholarship **GPA - 3.92**

**Bachelor of Engineering in Information Technology**, *Nagpur University* Aug 2016 - Oct 2020 President: IT Student Leadership Council **GPA - 3.14**