Harsh Tita

(480)-304-2231 | harshtita01@gmail.com | https://www.linkedin.com/in/harsh-tita-05a79b188/
https://github.com/iamharshtita

SUMMARY

Computer Science graduate student at Arizona State University specializing in data engineering, distributed systems, and cloud computing. Skilled in designing scalable data pipelines, optimizing data quality, and building backend systems using Python, SQL, Golang, and AWS. Actively seeking a Summer 2026 Data Engineer Internship to apply technical and analytical expertise toward impactful, data-driven solutions.

EDUCATION

Arizona State University   **May 2027**
Master of Science, Computer Science   *Tempe, Arizona, USA*
- **Coursework:** Distributed Database Systems, Semantic Web Mining.

Amity University   **Jul 2019 - Jun 2023**
Bachelor of Technology, Computer Science and Engineering   *Kolkata, India*
- **GPA:** 8.64
- **Coursework:** Data structures and Algorithms, Software Engineering, Pattern Recognition, Database Systems, Operating Systems, Cloud Computing, Parallel Computing

TECHNICAL SKILLS

- **Languages**: Golang, C/C++, Java, Python, JavaScript, SQL
- **Frameworks/Libraries**: Gin, NodeJS, AWS Boto3, Scikit, Numpy, Pandas, Hadoop
- **Tools**: Gitlab, Docker, Kubernetes, PostgreSQL, MongoDB, ETL
- **Cloud Platforms**: AWS S3, AWS EC2, AWS EMR

WORK EXPERIENCE

ZS Associates, Pune, India: Business Technology Solutions Associate   **Nov 2023 - Jun 2025**
- **Engineered automated data validation pipelines** using Python and SQL, reducing manual QA effort by **80%** and improving operational efficiency across multiple data sources.
- **Developed scalable ETL workflows** leveraging Hadoop and AWS EMR for distributed processing, ensuring reliability and speed in large-scale data transformations.
- **Collaborated with client data teams** (a leading pharma company) to troubleshoot data quality issues, generate SQL-based insights, and deliver accurate business metrics.
- **Owned end-to-end data quality** processes, implementing checks, logging, and error-handling mechanisms to ensure consistency in production data pipelines.

TechMojo Solutions, Hyderabad, India: Software Developer   **Jun 2023 - Nov 2023**
- **Microservice**- Built and optimized a scalable microservice in **Golang** by developing **REST APIs** and upgrading it to the latest Golang version, improving system performance and aligning with client requirements.
- **Optimization**- Reduced backend load time by 30% by optimizing data ingestion from **Kafka**, enhancing system efficiency and performance.
- **Skills/Tools**- Utilized **Golang, API Development, PostgreSQL, Kafka and Microservice Architecture** to enhance system efficiency, contributing to a more robust backend infrastructure.

PROJECTS

Cafe Management System (A CRUD Application)   **Jul 2023**
- Led the development of a Restaurant Management System microservice using **Golang**, implementing User Authentication, Role-based Access Control, and RESTful APIs for menu management.
- Utilized **PostgreSQL** for seamless data storage and retrieval, ensuring reliability and performance in handling food item **CRUD** operations.
- Demonstrated strong problem-solving skills by building an **authorization middleware**, safeguarding privileged endpoints.

Covid-19 Vaccine Stance Detection (NLP, Pattern recognition, Machine learning)   **Oct 2022**
- Implemented and compared supervised machine learning models (**KNN, SVM, Random Forest**) v/s transformers-based **BERT** to perform Sentiment Analysis on Covid-19 vaccine related Tweets to classify tweets into 3 classes: For, Against and Neutral.
- Obtained the highest accuracy of **85 %** in performing the sentiment analysis.

PUBLICATIONS

- Early-stage detection of Diabetes (Machine learning, Deep Learning):Research Paper is published in **IEEE Xplore** under the conference: 6th Smart Cities Symposium, IET.

HONORS AND AWARDS

- **Data Challenge Track:** Stood 4th in the data challenge track hosted by FIRE'22.