Atharva Biyani

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Education ____

The University of Texas at Dallas

Bachelor of Science, Computer Science

Richardson, TX

Expected Graduation May 2025

- GPA: 3.74/4.0
- Involvements: Association for Computing Machinery (Research), AWS Cloud Club (Operations Director), Artificial Intelligence Society (Al Dev)
- Relevant Coursework: Data Structures and Algorithms, Operating Systems, Computer Architecture, Database Systems, Software Engineering

Skills

Programming: Python, Java, C++, C, C#, JavaScript, TypeScript, Go, SQL, NoSQL, PHP, Hack, HTML, CSS | React, Angular, Node.js, Flask **Tools:** Git, Subversion, Jenkins, Linux, Unix, MongoDB, Snowflake | AWS, Azure, Google Cloud Platform, Docker, Kubernetes, Terraform

Experience _

Bank of America

June 2024 - August 2024

Plano, TX

Software Engineer Intern

- Engineered a scalable **Python**-based drift detection algorithm for **5M+ JSON objects**, reducing processing time from hours to **4.5 seconds** and achieving a **47000x speedup**
- Built modular orchestration, detection, and notification pipelines which enabled integration with internal systems in under 2 days and improved onboarding efficiency
- Automated test case generation for complex JSON scenarios, boosting test coverage by 40% and ensuring reproducible results across testing
 environments

Magnifico October 2023 - December 2023

Software Intern

Remote

- Shipped a video transcript tool using React and AWS Lambda, cutting latency to 15 seconds and improving UX through a redesigned profile interface
- Collaborated across engineering and QA to resolve 10+ Lambda bottlenecks; optimized MongoDB with compound indexing and aggregation, reducing large-query execution time by 35% and eliminating async failure cases

APCON May 2023 - December 2023

Software Front End Intern

Plano, TX

- Delivered 5 user-facing features and maintained a UI-related support ticket rate under 1 percent by managing 3 core Angular components and resolving 35 production issues
- Refactored 7 TypeScript components for modularity and led 30+ code reviews across Agile sprints, enhancing code maintainability and reducing runtime errors

Projects ___

Database Optimization Assistant

- Designed a Retrieval-Augmented Generation system using Falcon 7B to generate 250 SQL schema recommendations, improving database consistency and reducing query latency
- Developed a natural language to SQL engine with 50 millisecond response time and parsed 100 Snowflake DDL scripts to support real-time
 analytics use cases

Movie Sentiment Analysis

- Trained and benchmarked XGBoost, LightGBM, and BERT on 50000 IMDB reviews, with XGBoost achieving top performance (AUC 0.83, F1 0.8271) in binary sentiment classification
- · Preprocessed text with NLTK and accelerated training by 2 times on Colab GPU, improving F1 score and minimizing overfitting on unseen data

NBA Highlights Classifier

- Programmed an end-to-end AI pipeline with YOLOv5, MoveNet, and Random Forest to classify 40000 NBA clips with 77 percent accuracy, using OpenCV and Selenium to auto-label 980 samples
- Deployed the pipeline on Azure and automated training workflows with Jupyter Notebooks, increasing iteration speed by 3 times and improving
 precision by 12 percent using grid search and cross-validation

Honors and Certifications

1st Place, NASA Tech Trek Hackathon (Urban.AI - sustainability tool for urban heat analysis)

Startup Grant Winner, Expanding Frontiers Space Tech Pitch Competition (\$2,500 in seed funding)

AWS Certified Cloud Practitioner, Issued by Amazon Web Services