HRIDAYESH LEKHAK

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EDUCATION

The University of Texas at Arlington   Arlington, TX
BS Computer Science *GPA: 3.73*   Aug 2023 - Dec 2026

WORK EXPERIENCE

Computer Science and Engineering at UT Arlington   Arlington, TX
Web Developer   Nov 2023 - Present

- Maintain and enhance legacy web applications for the Computer Science and Engineering department at UT Arlington.
- Migrated legacy applications from PHP to a modern Python-based tech stack, significantly enhancing performance and user experience through optimized code and improved architecture.
- Develop new web applications as required by the department to meet evolving needs and specifications.
- Troubleshoot and resolve bugs, as well as implement new functionalities to enhance existing applications.

SilverLine System Integrators Pvt. Ltd.   Kathmandu, Nepal
Junior Full Stack Developer   Dec 2022 - Jun 2023

- Developed full-stack business management software applications using Django and Flask for clients in the banquet, restaurant, bar, and service industries.
- Created front-end interfaces with ReactJS and managed SQL databases for robust data handling and storage solutions.
- Used cPanel to host and manage company websites and databases, optimizing performance and reliability.
- Developed multiple websites for the company and a remote partner, ensuring seamless integration and functionality.

SKILLS

Programming Languages:	Typescript, Javascript, Python, PhP, SQL, Java, C
Technologies:	Next.js, React, Express, Nodejs, Django, Flask, Jinja, Flutter, Mongodb, REST, GraphQL
Additional Skills:	Full Stack Development, Machine Learning, Data Mining, Git, Nginx, jquery, Linux

RESEARCH EXPERIENCE AND PROJECTS

Arlington Computational Linguistics Lab (Group Member and Actively involved in research)
Machine learning, Deep learning, Natural Language processing   https://uta-acl2.github.io/index.html
I am a member of the Arlington Computational Linguistics (ACL) group at the University of Texas at Arlington, supervised by Dr. Kenny Zhu. Since fall 2023, I have been actively involved in research focused on artificial intelligence, specifically natural language processing, with a concentration on animal language processing, and during summer 2024, I served as a mentor for an ongoing REU project, guiding undergraduate students from across the U.S. under Dr. Zhu's supervision.

REU: Sourcing and Preprocessing Animal Communication Data for Language Understanding in Animals *Bert, ViT, Transformers, Python*
https://uta.engineering/innovationday/posters/2024/poster-53-1712284378.pdf
Developed a pipeline using natural language processing, data mining, and machine learning models to gather and preprocess high-quality datasets for advancing animal communication research.

AWARDS

CSE departmental REU grant- Spring 2024   CSE department at UTA
Received an award for my research project titled "REU: Sourcing and Preprocessing Animal Communication Data for Language Understanding in Animals," under the supervision of Dr. Kenny Zhu, as one of the eight undergraduate research projects funded by the Computer Science and Engineering Department in the first cycle.   Dec 2023

CSE departmental REU grant- Fall 2024   CSE department at UTA
Received an award for my research project titled "REU: Age and Gender Classifiers for Dogs from YouTube Videos," under the supervision of Dr. Kenny Zhu, as one of the eight undergraduate research projects funded by the Computer Science and Engineering Department in the second cycle.   Aug 2024