LAKSH KUMAR

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Education

Bachelor of Science in Computer Science | Texas Tech University   **Expected Graduation: May 2027**
- GPA: 4.00
- Relevant Coursework: Data Structures and Algorithms, Discrete Math, C programming, Data Science

Skills

Languages: *Proficient:* JavaScript (4yrs) • Python (5yrs) *Intermediate:* PHP (3yrs) • SQL (3yrs) *Beginner:* C(1yr)
Frameworks and Tools: MERN Stack • Vue • Laravel • Django • Git • Hugging Face • LangChain • TensorFlow

Technical Experience

Undergraduate Research Assistant | Texas Tech University, Lubbock TX   **Jan 2024 – Present**
- Implementing data preprocessing pipelines, incorporating techniques like data cleaning, augmentation, and normalization for LLM training
- Designing and executing experiments to test various model configurations, using metrics such as accuracy, precision, recall, and F1 score to evaluate performance
- Documenting research processes, methodologies, and results, contributing to publications and presentations

Web Developer Intern | Primitive, Lubbock TX (hybrid)   **May 2024 – Aug 2024**
- Developed and maintained responsive websites using Tailwind CSS, JavaScript, PHP, Vue, and Laravel
- Enhanced client engagement through optimized APIs and content management on platforms such as Bind, WordPress, and HubSpot
- Updated APIs, designs, and tracked website performance to ensure optimal functionality and user engagement

Web Developer | Robotics for All, Inc, Palo Alto CA (remote)   **Mar 2023 – Aug 2023**
- Built and maintained full-stack web applications using React.js and Node.js, improving site stability and user engagement
- Led the training and onboarding of new interns, helping them integrate into the development team effectively

Activities

Web Master | CodePath, TTU Chapter   **Oct 2024 – Present**
- Leading the design and development of CodePath TTU Chapter's website using React and Node.js, aiming to increase member engagement by 30% post-launch
- Planning and organizing events to build community and provide resources for aspiring developers

Treasurer | Tech Robotics Association   **Oct 2023 – Present**
- Managing club finances and resources, ensuring a budget surplus for upcoming events and competitions
- Initiated outreach efforts, securing grant funding to support team initiatives and new projects

Robot Programmer | VEX-U.   **Dec 2023 – Feb 2024**
- Contributed in the VEX-U team as a programmer for 2024 competition
- Responsible for the performance and different algorithms of the robot to design an efficient mechanical and logical system

Project Experience

Project-16 | Hackathon Project (~22 hours)
- Developed a web app integrated with a machine learning model to monitor and forecast methane emissions using real-time satellite imagery
- Used React JS to build front-end, Python for the model, Django for back-end integration, Google Cloud Console and Earth Engine for satellite data processing, and SQLite for database management

CTSI | Internship Project (~30 hours)
- Single-handedly developed and implemented a responsive website for CTSI using PHP Laravel, fulfilling business requirements and enhancing their digital presence
- Transformed detailed Figma designs into functional, high-quality web pages, ensuring design fidelity and a seamless user experience

Crescendo | Personal Project (~60 hours)
- Built a platform for reselling musical instruments, leveraging the MERN stack (MongoDB, Express, React, Node.js) for comprehensive development

Awards

- Presidential Merit Award
- President's Honor List, 2 Semesters
- Winner at HackWesTX 2024