RAKSHITH REDDY MUDIGOLAM

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EDUCATION

B. S - Computer science **Expected Graduation: May 2026**
Arizona State University, Tempe, AZ 4.0 GPA
3X Dean's List, New American University Scholarship Recipient

TECHINCAL SKILLS

Programming Languages: Java, Python, C, C++, JavaScript, Linux/Unix, HTML, CSS, R, MATLAB, Prolog, Scheme
Web Development: React.js, MongoDB, Tailwind CSS, Bootstrap, HTML, CSS, JavaScript
Software Development & Tools: Unity, Gamemaker 2.0, Studio 2.0-Bricklink, Express.js, SQLite
Media & Content Creation: Filmora, Adobe Premiere Pro, OBS
Communication & Collaboration: Salesforce, Slack, Discord, Dropbox, Google Drive
Microsoft Office: Word, Excel, PowerPoint, Outlook

PROJECTS

URL2Save **Present**
- Developing a full-stack web app to streamline job application management by extracting data from URLs, organizing relevant files, and presenting insights through a sleek Tailwind CSS dashboard.
- Implementing a status tracker for monitoring application progress, with secure authentication using Google OAuth 2.0.

Stumps of Delhi **November 2024**
- Led the development of a Supabase-based web application for the Delhi cricket community, utilizing Tailwind CSS to create a sleek, user-friendly interface. Integrated real-time match scores via API and engineered a community chat feature with secure Google OAuth 2.0 authentication.
- Implemented key functionalities such as tournament registration, dynamic weather updates, detailed Delhi ground pitch statistics, and a radar map showcasing live cricket box availability through the Playo API.

Keto-Friendly Checker **July 2024**
- Developed a React web app that uses the USDA Food Data Central API to determine if a food item is keto-friendly based on its nutritional content. Integrated Chart.js for dynamic visualization of macronutrients.
- Implemented real-time API data fetching and classification logic to categorize foods as "strictly keto-friendly," "flexibly keto-friendly," or "not keto-friendly," with interactive charts for nutritional breakdown.

Automotive Performance Analysis: Predicting Vehicle Fuel Efficiency **April 2024**
- Developed a machine learning pipeline to predict vehicle fuel efficiency, achieving an R^2 score of 0.972 using RandomForestRegressor.
- Conducted data preprocessing, feature engineering, and exploratory data analysis using Python, pandas, numpy, seaborn, matplotlib, and scikit-learn.

Amazon Sales and Profit Trend Analysis **February 2024**
- Conducted exploratory data analysis to identify key sales and profit trends, utilizing R (ggplot2, dplyr).
- Developed and evaluated predictive models (Linear Regression, Neural Networks, Elastic Net, Random Forest), achieving high accuracy with an R-squared value of 0.85 using Random Forest.

2023 Vietnam Substantial Shrimp Farming - Engineering Projects in Community Services **December 2023**
- Collaborated effectively within a 17-member team, actively participating in over 50 weekly meetings and contributing to Agile-driven roadmaps, resulting in a significant 20% increase in project efficiency compared to previous semesters.
- Applied expertise in HTML, CSS, PHP, and JavaScript to develop a compelling homepage and optimize the 'Contact Us' section of the website, enhancing user experience and functionality.

RESEARCH INVOLVEMENT / HACKATHONS

Opportunity Hack 2024 at ASU **October 2024**
- Collaborated with Nature's Edge Wildlife and Reptile Rescue (NEWRR) to streamline animal intake, adoption processes, and donation tracking using a four-layer software architecture.
- Developed a React-based user interface, managed page transitions with React Router, and built API endpoints with Express.js, with secure data storage implemented via SQLite.

FutureG - Future Generation Wireless Technology **May 2024**
- Participated in a five-day FutureG Summer Research Camp at Arizona State University, hosted by the DOD Center of Excellence in Future Generation Wireless Technology.
- Gained hands-on experience in wireless communication technologies, including cybersecurity, signal processing, and AR/VR systems. Engaged with leading faculty and industry experts, enhancing understanding of cutting-edge advancements in wireless network technology.