RISHAB KHUNTIA

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Skills

- Python | PHP | Java | JavaScript | TypeScript | C++ | CosmosDB | MSSQL | Couchbase | Express | React | Redux | NoSQL | Git | HTML | CSS
- Azure | Cloud Computing | CI/CD | AWS | Jira | Unit Testing | Lambda | OOP | Flask | Tenserflow | Pytorch | OpenCV | Machine Learning
- Microservices | Distributed Systems | Frontend | Backend | Full-Stack | Data structure and Algorithms | Software Engineering | Data Mining | Web Data Management | Computer Networks | Advanced Topics in Database Systems

Experience

Software Development Intern   **Paycom**   *Grapevine, TX, USA*   **05/2023 - 08/2023**

- Led the design and Implementation of cookie management system as a microservice, reducing page load time by 50%.
- Streamlined data retrieval processes by integrating efficient caching techniques, reducing API response time by 40%.
- Integrated with team members a control panel for the backend to filter the users through origins, used it to integrate in other internal applications where userdata is required and improved security by generating cookie id and storing in time constraint sessions.
- Continuous Integration, pull requests, code review, debugging, resolving merge conflicts, load/stress testing, unit/integration testing.

Graduate Teaching Assistant   **University of Texas at Arlington**   *Arlington, TX, USA*   **08/2022 - 05/2023**

- Provided guidance and support to students during weekly office hours, resulting in a 15% increase in student satisfaction with materials.
- Assisted students with project presentations by providing guidance on content structure and delivery techniques, resulting in a 20% increase in presentation quality score from the evaluation panel.
- Responded to 50+ student inquiries via email and in-person, ensuring a high level of customer satisfaction.

Programmer Analyst   **Cognizant Technology Solutions**   *Chennai, INDIA*   **08/2020 - 11/2021**

- Developed and implemented a web-based portal utilizing React.js microservices, Azure AD B2C, Cosmos DB, and Azure app insights to compare data frames with millions of records for a banking system. This resulted in streamlined auditing processes and improved efficiency by 40%.
- Identified and resolved critical errors in production systems, resulting in a 75% decrease in customer-reported issues.
- Managed and coordinated cross-functional teams throughout the SDLC process, resulting in a 20% decrease in project completion time.

Programmer Intern   **Cognizant Technology Solutions**   *Chennai, INDIA*   **01/2020 - 05/2020**

- Implemented Scala programming to create views for the project, resulting in improved data visualization and analysis capabilities.
- Utilized AWS cloud services to host the shopping website, resulting in 99.9% uptime and increased scalability for handling high traffic.
- Implemented a commenting and rating feature for products, search functionality through keywords.

Education

Master of Computer Science(MSCS)   **University of Texas at Arlington**   *Arlington, TX, USA* **01/2022 - 12/2023**

- Major in Artificial Intelligence and Databases/Cloud computing   **CGPA - 3.7**

Projects

- **Machine Learning Projects : (Python, OpenCV, Tensorflow, Pytorch)**   **01/2023**

Image Captioning - Trained a LSTM generator using captioned data and use beam search algorithm to refine output.
Face Recognition -Trained LFW dataset using SVM model and eigenfaces to compare quantitative and visualization parameters for PCA/ICA.
Visual Question Answering - Implemented a CNN model to encode image into a feature vector, an LSTM to encode each word in the question and a fusion model to integrate questions and answers into the matrix.

- **Building an Artificial Intelligence game grid : (Python)**   **08/2022**

A game implements game playing algorithms such as minmax, alpha-beta pruning. Accomplished using python object-oriented concepts such as inheritance, encapsulation, and polymorphism. Calculates the overall score and predicts the winner.

- **Data Analysis and Visualization : (Python, Matplotlib, Flask, Azure SQL)**   **06/2022**

Analyzed earthquake dataset and performed SQL queries from cloud-based web application interface to get desired output.
Represented the output in a scatter diagram, clustering, pie chart, histogram and bar chart using visualization.
Built a multi class text classification using NLP to perform text manipulations using the Flask framework.

- **Web Data Management Projects : (HTML, CSS, Javascript, PHP)**   **02/2022**

Used Yelp API and Google maps web services to take coordinates from user and display all the restaurants filtered by cuisine in that area.
Developed a backend service in PHP which uses Yelp API to find best restaurants according to ratings and stores them as favorites. The data was stored in a current session and also in a MySQL database to check the querying time and prepare test cases.
Utilized the Dropbox API to create a photo album and performed operations such as upload, delete and browse photographs.

Others

- Received **best Project certificate** for Ultrasonic blind stick from Department of Physics and Nanotechnology.   **(04/2017)**
- Participated in a Hachathon Illuminati from the Department of Software Engineering.   **(02/2017)**