

RENU AAKANKSHA VEESAM

Dallas, Texas

+1-469-893-0259 ✉ renu.aakanksha06@gmail.com [in](#) [linkedin](#) [G](#) [Github](#)

EDUCATION

University of Texas At Arlington

Master of Science, Computer Science

- **Achievements:** GPA: 3.86
- **Coursework:** Web Development, Design and Analysis of Algorithms, Artificial Intelligence and Machine Learning, Data Mining, Software Engineering, Cloud Computing, Big Data

EXPERIENCE

Dimensional Fund Advisors

May 2023 - Sep 2023

Full Stack Developer Intern

Austin, Texas

- Developed data aggregation services using Spring Boot and Java, facilitating real-time investment tracking with streamlined financial data synchronization across portfolios, while ensuring solutions were scalable and maintainable.
- Built interactive user interfaces with React.js and TypeScript for investment management dashboards, effectively enhancing user engagement.
- Constructed report generation pipelines using SQL and Python, enabling seamless data processing for quarterly investor reports with substantial accuracy improvements.
- Implemented secure APIs using OAuth2 and JWT authentication, ensuring data integrity and compliance with financial regulations.
- Enhanced portfolio management tools through modular UI components in React.js, allowing customizable portfolio analysis features.
- Created real-time data visualizations using D3.js and Power BI for investment trend analysis, providing actionable insights through comprehensive visual reports.

University of Texas at Arlington

Jan 2024 - Dec 2024

Graduate Teaching Assistant for Software Engineering course

Arlington, Texas

- Lectured over 120 students on the software development life cycle (SDLC), object-oriented design (OOD), and project management concepts, supporting the delivery of industry-relevant education and student competency.
- Developed coding exercises, assignments, and technical tutorials, focused on alignment with industry standards and trends.
- Mentored students in data structures, design patterns, and system architecture, helping improve coding proficiency and academic performance.

Head Digital Works

Sep 2021 - Dec 2022

Full Stack Developer

Hyderabad, Telangana, India

- Managed and optimized post-deployment features for A23 Rummy, a large-scale web application with 50M+ users, ensuring high performance, stability, and seamless user experience.
- Launched the "Call Break" gaming app using React and Spring Boot, and Java increasing engagement by 20% and reducing load times by 15%.
- Engineered REST APIs and integrated WebSocket-based real-time services, increasing user engagement by 30%.
- Automated CI/CD pipelines with Azure DevOps, Docker, and scripting, reducing deployment cycles by 25%.
- Strengthened system security by integrating OAuth2, JWT authentication, and RBAC-based authorization.
- Managed user accounts, security rights, and disk space on Azure-supported Red Hat Linux, ensuring uninterrupted access with a 98% satisfaction rate.
- database performance is optimized by 35% through query optimization, tuning and indexing, enhancing system efficiency.
- Automated cloud-based deployments using Unix shell scripting and Perl, ensuring system reliability and scalability.
- Conducted load testing using JMeter, New Relic, and LoadRunner, resolving performance bottlenecks and improving server response times by 35%.
- Collaborated in Agile Scrum workflows for planning, feature development, and peer code reviews, ensuring high-quality deliverables.

IHS Markit

Mar 2021 - Aug 2021

Software Developer Intern

Hyderabad, Telangana, India

- Created 35+ Power BI dashboards, driving data visibility improvements by 35% and decision-making efficiency by 20% for senior stakeholders.
- created Python-based ETL pipelines for cleaning, processing, and extracting data from large datasets, reducing data errors by 15% improving overall data accuracy.
- Designed efficient data extraction pipelines, improving processing speed by 20% and increasing data usability by 10%, enabling actionable insights for stakeholders.
- Designed SQL-based data storage systems ensuring high availability and low latency for application data.
- Automated incident response workflows, reducing MTRT by 20% through real-time monitoring and alerting systems.
- Collaborated on DevOps pipeline integration using Python, Java, and CI/CD tools, improving deployment efficiency.

PROJECTS

Personal Project

Budget Buddy - Expense Tracker Application

- A full-stack application using Flask and Vue.js with JWT authentication and receipt scanning APIs to automate transaction logging.
- Secured API communication with Flask-CORS and Axios for backend stability.
- Generated interactive financial dashboards using Chart.js, boosting user engagement by 30% through intuitive data visualization.
- Deployed with Docker and Vite, ensuring continuous delivery.

Personal Project

UNO Card Game Application

- Multiplayer UNO card game using React.js and JavaScript, increasing gameplay engagement by 40%.
- Real-time game state management with features like card rendering and turn management.
- Real-time communication enabled using WebSocket protocols.
- Game data storage with REST APIs for persistence and retrieval.

Personal Project

Virtual business Card

- Web application created using PHP, JavaScript, and SQL, enabling personalized business card creation with a 50% increase in user adoption.
- Implemented responsive UI/UX with real-time previews and profile customization using HTML5, CSS3, and JavaScript DOM manipulation.
- Enabled cross-platform compatibility and secure data management through REST APIs and session control.

Personal Project

Sentiment Analysis for Movie Reviews using LSTM

- An LSTM-based sentiment analysis model for movie reviews, incorporating the BERT technique and achieving a 97% test data accuracy and 97% training dataset accuracy.
- Preprocessed text using tokenization, stop-word removal, and embedding layers for improved feature representation.
- Optimized model using hyperparameter tuning with Keras and TensorFlow, reducing training time by 20%.

SKILLS

- **Programming languages:** Python, Java, JavaScript (ES6+), C, C++, PHP
- **Low-Code Development Tool:** Microsoft Power Apps
- **Web Development:** React.js, Vue.js, HTML5, CSS3, Bootstrap, REST APIs
- **Backend & Frameworks:** Spring Boot, Flask, Node.js, Express.js, JBPM
- **Database Management:** SQL (PostgreSQL, MySQL), MongoDB
- **Cloud & DevOps Tool:** AWS (EC2, S3, Lambdas), GCP, Azure DevOps, Docker, Kubernetes, Jenkins
- **Big Data & Data Processing:** Hadoop, Spark, Databricks
- **Testing & Debugging:** JUnit, Selenium, Postman, JMeter, LoadRunner
- **Data Visualization Tools:** Power BI, Tableau
- **Version Control & Collaboration:** Git, GitHub, Bitbucket, JIRA
- **Infrastructure Management:** Server Administration, Web Hosting (cPanel), FTP (FileZilla)
- **Industry & Business Knowledge:** Regulatory requirements, Financial systems, Business acumen
- **CI/CD & Pipeline Management:** DevOps pipelines, CI/CD pipelines

CERTIFICATIONS

- **Google Cloud Platform (GCP) Fundamentals: Core Infrastructure:** Google Cloud Training
- **Machine Learning: Regression and classification:** Stanford University
- **Data Engineering Foundation:** LinkedIn Learning
- **Google Analytics Beginners:** Google
- **React Basics:** Coursera
- **Networking: The Bits and Bytes of Computer Networking:** Coursera