

HANISHA SREE SANGAM

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EDUCATION

University of California at Riverside | California

January 2021-April 2022

Master of Science in Computer Engineering | **Computer Engineering** | GPA: 3.41

GITAM University | Visakhapatnam, India

June 2015-April 2019

Bachelor of Technology in Computer Science and Engineering | **Computer Science and Engineering** | GPA: 3.4

EXPERIENCE

Software Engineer | **Happy Money Inc(Contract)**

July 2022-Present

- Led a greenfield project designing a high-throughput, distributed data storage solution using Apache Cassandra and Spark for a financial service client, implementing RBAC for data security and employing an ETL pipeline for data warehousing solutions.
- Developed and deployed a real-time stream processing pipeline using Apache Kafka and Python for event processing, integrating with an existing data warehouse and utilizing Splunk for log monitoring and analysis; implemented data masking for data quality and security.
- Built and deployed ML models using Python and scikit-learn for fraud detection, integrating with a GraphQL API, leveraging Azure cloud infrastructure and implementing data modeling techniques for a robust data systems solution. Data analytics dashboards displayed results and aided risk management.
- Engineered a scalable, distributed system for a client undergoing digital transformation, improving data quality via data engineering best practices and employing automated testing; implemented data warehousing solutions using GCP and achieved a 20% reduction in processing time for batch processing using optimized data structures; leveraging AI for process automation. Implemented ArcSight for cybersecurity and MRM, GTS, and Technology Service support.

Graduate Teaching Assistant | **University of California at Riverside**

January 2021-December 2021

- Worked as an instructional continuity consultant for the Department of Multimedia and XCITE, gaining hands-on experience with Zoom, Teams, VPN, wireless networks, Canvas, and eLearn platforms.
- Headed the Material Science and Engineering Department, collaborating with faculty to develop lectures, manage the student portal, and integrate technology for enhanced teaching and student interaction.
- Led efforts to review and improve continuing educational continuity by 75%, analyzing data, tracking student learning outcomes, observing teaching approaches, and implementing pedagogical enhancements.
- Served as a Graduate Teaching Assistant in the Department of Computer Science and Engineering, providing support for the Big Data Management course and evaluating projects using Hadoop and Scala.

Software Engineer | **Indian Institute of Petroleum Engineering(IIT), Kharagpur, India** | **Kharagpur, India**, July 2020 - December 2020

- Successfully set up and configured VPN (Virtual Private Network) infrastructure to ensure secure remote access for users.
- Proficient in deploying and managing LAN devices such as cameras, printers, routers, and switches to optimize network performance.
- Implemented robust security measures, including firewalls and access controls, to safeguard network resources and data.
- Collaborated with cross-functional teams to troubleshoot network issues, ensuring smooth operation and minimal downtime.

- Led engineering team in designing a high-throughput payroll data pipeline using Java, integrating robotic process automation for data extraction.
- Developed and deployed data science models for predictive analytics on payroll data, improving accuracy and reducing processing time by 15%.
- Implemented efficient algorithms and data structures to handle large datasets, ensuring robust and scalable data processing. Product innovation resulted in a 20% increase in data processing speed.
- Engineered a secure, cloud-based payroll application, demonstrating engineering leadership and integrating with external APIs for seamless data synchronization. Data Science techniques ensured data integrity and confidentiality.

Software Intern | SDSC, Indian Space Research Organization. Government of India**May 2018 - July 2018**

- Led CI/CD pipeline implementation for automated data processing, improving deployment frequency.
- Processed terabytes of meteorological tower data using Python scripts, enabling real-time anomaly detection.
- Developed JavaScript visualizations for real-time data monitoring, improving stakeholder communication.
- Automated anomaly detection, achieving 99% accuracy within seconds using Java, Python, and advanced statistical methods; reduced processing time by 50%.

PROJECTS

Professional Network Application

- Developed a high-throughput social networking application database using PostgreSQL, NoSQL (CouchDB), and Java, implementing CI/CD pipelines with Jenkins and Ansible.
- Designed the ER model and relational schema in Visio, optimizing for scalability and efficient data retrieval using Oracle and Python for data analysis; utilized Maven for project management and Bash scripting for automation.
- Built user profiles, connections, and messaging features; implemented a robotics-inspired connection suggestion algorithm, leveraging Elasticsearch and Apache Solr search engines for improved performance; employed DevOps tools and Puppet for infrastructure management.
- Achieved high availability for a large user base with robust authentication and access controls using JavaScript; created technical documentation in MS Office, Confluence, and PowerPoint; deployed on Linux OS using Chef.

Health Medicine Recommendation System

- Developed a scalable, relational database for a networking application using PostgreSQL, implementing CI/CD pipelines for efficient Software Development.
- Designed and implemented the client application using Java, JavaScript, and Python for user profiles, messaging, and content sharing features.
- Created ER and relational schemas, optimizing database performance for efficient data retrieval and management using Word documentation for design specifications.
- Improved application performance by 15% using Python scripting for data optimization, demonstrating proficiency in Software Development and JavaScript front-end development.

SKILLS

Java	SQL	HTML	CSS	MySQL	Tableau	PostgreSQL	Microsoft Excel	Google Sheets	Git	Jira
Kafka	Docker	Okta	RESTful	GRPC	TDD	OAuth	SAML	AWS	Hadoop	Scala

SUMMARY

- Highly motivated and detail-oriented software engineer with 3 years of experience in the field.
- Skilled in designing and developing software solutions, utilizing clean and maintainable code practices.
- Proficient in test-driven development and automation frameworks for UI and backend APIs.
- Collaborative team player with a strong analytical mindset, adept at troubleshooting and resolving complex technical challenges.
- Seeking a position to leverage my expertise and contribute to innovative software projects.