

Mahathi Reddy Vakeel

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Education

Master of Science in Information Technology (GPA: 4.0/4.0)
University of Cincinnati, Ohio.

Jan 2023 - Apr 2024

Technical Skills

Key Skills	Java, Python, C++, SQL, MySQL, Linux, Agile methodology, Cloud Computing, Microsoft Azure, AWS and Software testing
Web Technologies	HTML5, Java Script, JSON
Version Control	GIT.
Tools	Unity, Informatica, ServiceNow, Mainframe, Excel, Google Cloud, Anaconda, SoapUI

Professional Experience

University of Cincinnati
Graduate Teaching Assistant

Jan 2023 - Apr 2024

Technologies for Mobile Applications:

- Facilitated student-driven feature development using Java for mobile applications, enhancing learning outcomes by 20%.
- Supported 100+ students in resolving technical challenges with mobile devices, improving project completion rates by 30%.
- Selected and evaluated software tools and APIs for mobile application development, optimizing the development process.
- Reviewed and tested interactive programs for mobile devices, ensuring 95% functionality and user experience compliance.

Advanced System Administration:

- Guided 60+ students in setting up and maintaining large-scale Linux/UNIX/Windows servers.
- Instructed on system security, shell scripting, and server backups, increasing security compliance by 15%.
- Led discussions on security policies and communication strategies, resulting in a 25% improvement in policy adherence.

Enterprise Security Forensics:

- Trained students in using forensic software tools like Wireshark, adhering to legal procedures.
- Conducted discussions on preventing unauthorized attacks, reducing incidents by 10%.
- Elevated analytical proficiency in conducting risk analysis for enterprise systems, enhancing decision-making processes and risk mitigation strategies.

Advanced Technologies in Game Development:

- Directed students in exploring and implementing game development using Unity and Unreal Engine.
- Coordinated group work for over 30 students through the game development life cycle.
- Demonstrated proficiency in JavaScript and C++ for game development, leading to the creation of 5 fully functional games.

Games for Learning and Simulation:

- Collaborated with students to design and develop 20+ educational games and simulations.
- Guided students throughout the game development process, fostering creativity and innovation.

Senior Design Preparation and Senior Design Project:

- Prepared 50+ students for senior design projects and assisted in project selection.
- Mentored in analyzing complex computing problems and designing solutions, resulting in 99% successful project completions.

TCS, Bangalore, India
Junior Software Developer

Aug 2021 - Dec 2022

Responsibilities:

- Spearheaded the efficient management of Mainframe and Informatica systems within the banking sector, ensuring seamless operations and adherence to industry standards.

- Crafted and executed complex SQL queries, including Joins and Subqueries, to manipulate and transform data in alignment with business rules and requirements.
- Utilized Agile frameworks in daily scrum meetings to Provided detailed project updates to stakeholders, ensuring transparency and alignment across distributed teams.
- Oversaw the daily operations of critical applications, ensuring uninterrupted functionality and prompt issue resolution to maintain exceptional service levels.
- Analyzed detailed logs to swiftly identify and resolve API job failures, maintaining 99% uptime and resulting in a 50% reduction in customer support tickets related to technical issues.
- Designed, developed, and implemented ETL processes using Informatica PowerCenter, facilitating the extraction, transformation, and loading of data from diverse source systems into the data warehouse.
- Validated python APIs to ensure compliance with specified JSON formats and HTTP status codes, ensuring the integrity of data exchanges and elevating client satisfaction levels.
- Actively participated in daily scrum meetings, fostering open communication channels and facilitating comprehensive project updates to enhance team collaboration and productivity.
- Leveraged Microsoft Excel to create insightful charts for analyzing client issues, enabling effective progress tracking and informed decision-making for issue resolution.

Core EL Technologies, India Python Intern

May 2020 - Jun 2020

- Engineered a Python-based IoT system with AI functionalities, resulting in a 25% increase in system efficiency.
- Built a bespoke embedded system on FPGA, documented in a comprehensive case study, and conducted thorough testing, resulting in a 20% reduction in system errors.
- Showcased expertise in software development and cloud computing within the IoT domain, utilizing Python programming and Google Cloud Storage, resulting in a 15% improvement in system reliability.

Projects

Customer Experience Enhancement Platform

Jan 2024 - Apr 2024

- Created a Java-based platform using the Waterfall SDLC approach.
- Integrated advanced analytics, sentiment analysis, and predictive modeling, increasing user engagement by 40%.
- Implemented personalized engagement methods and omnichannel experiences, enhancing customer satisfaction by 30%.
- Ensured ethical AI practices and algorithmic fairness, boosting trust in the system.
- Achieved seamless data collection and real-time analytics, reducing response times by 50%.
- Improved scalability and privacy with distributed computing and encryption.

Predictive Modeling for Employee Attrition

Aug 2023 - Dec 2023

- Employed Python for data analysis and machine learning tasks.
- Conducted correlation analysis to identify factors contributing to employee attrition.
- Built a Random Forest Classifier model with 87.75% accuracy, improving prediction reliability.
- Identified critical predictors of attrition and provided actionable insights for employers, reducing attrition rates by 15%.

Achievements

- **Outstanding Student of MSIT Award, University of Cincinnati.** Apr 2024
- **Certificate of Appreciation for working as a Graduate Teaching Assistant.** Nov 2023
- Member of Information Technology Student Association (ITSA) Aug 2021 - Jul 2022
- Member of Computer Society of India (CSI) Aug 2017 - Jul 2022
- Certificate of appreciation in fusion-2020, CSI at MVSR Engineering College
- Organized a technical event in ITSA fest, MVSR Engineering College in 2018