VENKATA SAI KIRAN KURETI

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SUMMARY:

Results driven software professional with 2+ years of hands-on experience in Software backend development and IT Support.

EDUCATION

Texas Tech University, TX, USA   **Aug 2021 – May 2023**
Master of Science in Computer Science   GPA: 3.66
- **Courses:** Algorithms, Data Structures, Operating Systems, Parallel Programming, Machine learning

Gandhi Institute of Technology and Management, AP, India   **Jul 2017 – Jun 2021**
Bachelor of Technology in Electronics and Communication Engineering   GPA: 3.5

WORK EXPERIENCE

Advanced Technology Learning Center, Texas Tech University, TX   **Jul 2022 – May 2023**
Graduate Student Assistant - IT Support
- Configured Python scripts and custom tools to analyze logs, monitor 63 systems, process data, and enhance system visibility, performance, and alerting
- Troubleshooted and resolved system-related issues promptly to ensure minimal downtime and optimal system performance
- Supervised and networked 45 systems onto university's intranet running scripts leading to improved operational efficiency
- Tested and documented disaster recovery procedures to ensure business continuity

Techimax IT Services, Hyderabad, India   **Jun 2020 – Jul 2021**
Software Engineer
- Developed end-to-end solutions using Python Django, JavaScript and integrated third-party services in the E-commerce platform
- Executed over **28 Restful API calls** for seamless data exchange in JSON format enhancing cross-platform interaction compatibility
- Collaborated with cross-functional teams to gather requirements, analyze project goals ensuring business objectives and user needs
- Employed **Django's ORM** in Python to optimize relational databases, achieving 33% reduction in database query response time resulting in high responsive e-commerce application
- Demonstrated expertise in Git version control, proficiently managing code repositories, branches, and merges to ensure seamless collaboration within the development team

The SmartBridge, Hyderabad, India   **Dec 2019 – May 2020**
Data Analyst
- Articulated detailed data findings and insights to non-technical stakeholders, promoting informed decision-making in education technology organization
- Designed and implemented an automated data preprocessing and data collection process, reducing manual data entry errors by 20%
- Coded and optimized complex SQL queries to extract actionable insights from internal databases, increasing analysis productivity
- Created impactful dashboards in Excel and Tableau using pivot tables and VLOOKUP enabling data-driven decision-making

PROJECTS

Hackers Toolkit
- Built a secure full-stack web application with Django REST API, JavaScript integrating security tool APIs for IP scanning.
- Orchestrated Docker container scaling on Azure AKS for backend API hosting to achieve secure workflow.

Chat Mingle
- Led full-stack development of a Chat app with Flask REST API and React.js, delivering real-time messaging experience for up to 100 users with WebSocket.
- Deployed the application on AWS utilizing EC2, S3, and ELB for scalability and user traffic management

Air Quality Prediction using Machine Learning
- Implemented a robust ML model for future 5-year AQI prediction, using various regression algorithms
- Leveraged data visualization tools for precise ML algorithm selection providing actionable insights for improved air quality

SKILLS

Programming Skills: Python, Java, JavaScript, SQL, Shell Scripting
Web Development: HTML, XML, CSS, Bootstrap
Frameworks: Django REST API, Flask, React.js
Databases: MySQL, MongoDB
Cloud & Other Tools: AWS (EC2, IAM, S3), Azure, Git, Docker, Kubernetes, Tableau, Scikit-learn, NumPy, Pandas, Matplotlib

AWARDS & HONORS

- Competitive Merit based Scholarship Award from Texas Tech University for the academic years 2021-22 and 2022-23