

VENKATA SAI KIRAN KURETI

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<https://vsaikiran93.github.io/portfolio-website.github.io/>

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

Master of Science in Computer Science

Aug 2021 – May 2023

GPA: 3.66

- **Courses:** Algorithms, Data Structures, Operating Systems, Parallel Programming, Machine learning

Gandhi Institute of Technology and Management, AP, India

Bachelor of Technology in Electronics and Communication Engineering

Jul 2017 – Jun 2021

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

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

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