

# VENKATA SAI KIRAN KURETI

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## EDUCATION

**Texas Tech University, TX, USA**

**Aug 2021 – May 2023**

Master of Science in Computer Science

GPA: 3.66

- **Courses:** Algorithms, Operating Systems, Machine learning, Network Security

**Gandhi Institute of Technology and Management, AP, India**

**Jul 2017 – Jun 2021**

Bachelor of Technology in Electronics and Communication Engineering

GPA: 3.44

- **Courses:** Data Structures, Object Oriented Programming with C++

## 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 almost 45 systems onto university's intranet running scripts leading to improved operational efficiency
- Tested and documented disaster recovery procedures to ensure business continuity

**Techimax, Hyderabad, India**

**Jun 2020 – Jul 2021**

*Junior Software Developer*

- 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, Shell, JavaScript, SQL

**Web Development:** HTML, XML, CSS, Bootstrap

**Frameworks:** Django REST API, Flask, React.js

**Databases & Servers:** MySQL, MongoDB, Apache2, Nginx

**Cloud:** AWS (EC2, IAM, S3, VPC, DynamoDB, Lambda, CloudFormation), Azure (VM, App Service, Cosmos DB, AKS)

**Tools & Libraries:** Git, Docker, Kubernetes, Tableau, Power BI, Scikit-learn, NumPy, Pandas, Seaborn, Matplotlib

## AWARDS & HONORS

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