

VENKATA SAI KIRAN KURETI

+1 (806) 772-6757 | vsaikiran.kureti93@gmail.com | www.linkedin.com/in/venkat-k893/ | <https://github.com/VSaiKiran93/>
<https://vsaikiran93.github.io/portfolio-website.github.io/>

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

Research Project Assistant

Jan 2023 – May 2023

Texas Tech University

- Superheaded the development of an open-source vulnerability assessment system using Python and Django, leveraging key security tools such as OpenVAS, Nmap
- Guided development process in a Linux environment, demonstrating proficiency in virtualization. Achieved a secure, scalable application, showcasing adaptability in efficient deployment
- Configured shell scripts for nmap scanning in a 2-VM approach architecture for a secure and scalable network scanning
- Authored a detailed 48-page report outlining the architecture, functionalities for knowledge transfer and future development

Information Technology Support Specialist

Jul 2022 – May 2023

Texas Tech University – ATLC

- Communicated with supervisors and managers to set up campus computers utilized on campus
- 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

Software Engineer

Feb 2021 – May 2021

Techimax IT Services Ltd, India

- 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

SKILLS

Programming Skills: Python, Java, C/C++, SQL, JavaScript, HTML/CSS

Frameworks: Django REST API, Flask, Sprint Boot, Hibernate, React.js

Other Technologies: AWS (EC2, IAM, S3), Azure, Git, MySQL, MongoDB, Docker, Kubernetes, NumPy, Pandas, Matplotlib

PROJECTS

Portfolio | [Website](#) | *HTML, CSS, JavaScript*

- Designed a responsive portfolio website using HTML, CSS, Vanilla.js and implemented media queries for responsiveness across various screen sizes including desktop, and mobile optimizing user experiences for users

Hackers Toolkit | [GitHub](#) | *Python, Django, JavaScript, Azure*

- 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 | [GitHub](#) | *Python, Flask, React, AWS*

- 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 | [GitHub](#) | *Python, ML, NumPy, Pandas, Scikit-Learn*

- 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