

# VENKATA SAI KIRAN KURETI

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## 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

**IT Web Developer**

**Feb 2022 – Jun 2022**

*Texas Tech University*

- Developed an existing university survey management system leveraging Java, Spring Boot, Hibernate and design patterns
- Engineered performance tuning using database indexing and caching strategies, resulting in decreased database query execution
- Conducted thorough code reviews on peers' pull requests, ensuring adherence to high standards in software implementation

## PROJECTS

**ERP Application** | [GitHub](#) | *Java, Spring Boot, PostgreSQL, React.JS*

- Developed an open-source Enterprise Resource planning model utilizing Java, SpringBoot, PostgreSQL in a server-side architecture
- Implemented robust security via Spring Security, integrated open-source ERP components, resulting in a tailored and cost-efficient system

**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

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

- Led full-stack development of a Chatting 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

## 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, PostgreSQL, Docker, Kubernetes, NumPy, Pandas, Matplotlib