

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, 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

TECHNICAL SKILLS

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

Frameworks: Django REST API, Spring, Spring Boot, Hibernate, React.js

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

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, integrating critical security tools like OpenVAS and 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 enhancing 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, 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

University Management System | [GitHub](#) | *Java, Spring Boot, PostgreSQL*

- Developed backend functionalities for a University Management System using Java, Spring Boot, PostgreSQL, and Hibernate
- Implemented CRUD operations for managing courses, student information, teacher details, and classroom data

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