Venkata Sai Kiran Kureti

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Education

Texas Tech University **Aug. 2021 – May 2023**
Master of Science in Computer Science *Lubbock, TX*

Gandhi Institute of Technology and Management **July 2017 – June 2023**
Bachelor of Technology in Electronics and Communication Engineering *India*

Technical Skills

Languages: Python, Java, C++, JavaScript, SQL, HTML/CSS
Frameworks/Libraries: Django, Spring, Spring Boot, React.js, JUnit, NumPy, Pandas
Developer Tools: VS Code, Eclipse, Git, Azure(VM, CosmosDB), AWS(EC2, DynamoDB), PostgreSQL, Docker
Relevant Courses: Data Structures, Algorithm Analysis, Parallel Programming, Networking, Computer Architecture, Operating Systems, Machine Learning, Artificial Intelligence

Experience

Software Engineer **Aug. 2023 – Present**
SOL IT Systems LLC *Irving, TX*

- Involved in implementing enhancements in microservices web application using Java/J2EE, JSP, Spring MVC
- Designed use cases and developed UML diagrams - activity, sequence, class using Draw.io with product goals
- Streamlined SQL database interactions using Hibernate and JPA, implementing effective indexing and performance tuning to increase query execution
- Contributed to enhancing 20+ features in the application within 8 sprint phases using Agile SDLC reducing dev time
- Leveraged JUnit's debugging features (e.g., breakpoints) to analyze failing unit tests, pinpoint root causes, and resolve software bugs, ensuring code correctness and reliability

Research Project Assistant **Jan. 2023 – May 2023**
Texas Tech University *Lubbock, TX*

- Spearheaded the development of an open-source vulnerability assessment system using Python, Django, JS, and Azure
- Integrated security tools by creating RESTful APIs for IP scanning and aggregated XML results to an organized format
- Automated deployment, configuration management in Azure VMs using shell scripts, increasing operational efficiency
- Authored a detailed 48-page report outlining the architecture, functionalities for future development

Information Technology Support Specialist **July 2022 – May 2023**
Texas Tech University – ATLC *Lubbock, TX*

- Collaborated with supervisors and managers to ensure campus computers were set up and functioning optimally
- Incorporated Adobe, Java SDK into on-campus systems using KACE API by authenticating with the KACE server
- Tested and documented disaster recovery procedures to maintain business continuity for 63 systems

Projects

University Management System | *Java, Spring, Hibernate, PostgreSQL* **(GitHub)**

- Developed Java based Management System, implementing CRUD operations for managing courses, student information, teacher details, classroom data and custom portals

Portfolio Website | *HTML, CSS, Vanilla.js* **(Website)**

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

Social Media Chat Application | *Java, Spring, Android Studio, Firebase* **(GitHub)**

- Created an Android chat app enabling real-time messaging with Firebase Cloud Messaging(FCM) and WebSocket integration, featuring OAuth 2.0, JWT, and Firebase Authentication for secure user login/signup

Vulnerability Assessment System | *Python, Django, JavaScript, Azure* **(GitHub)**

- Built a secure full-stack web app using Django REST API, JavaScript with integrated security tool APIs, and deployed with auto-scaling Docker containers on Azure AKS for efficient backend API hosting.

Air Quality Prediction Using Machine Learning | *Python, Flask, ML, NumPy, Pandas, Scikit-learn* **(GitHub)**

- Devised a robust 5-year AQI forecasting model using classification and regression, optimized through data visualization for improved air quality prediction.