Venu Vardhan Reddy Tekula

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EDUCATION

New York University, Tandon School of Engineering   Brooklyn, NY
Master of Science (MS) in Computer Science | **GPA: 3.8/4.0**   09/2022 – 05/2024

SKILLS

Programming languages & Frameworks: Python, JavaScript, Java, React, Vue.js, Django, Ruby on Rails
Databases & Cloud platforms: MySQL, MongoDB, AWS
Data: Hadoop, Scala, Spark, NoSQL, R, Pandas, NumPy, SciPy, Matplotlib, Seaborn
MLOps: CI/CD, Docker, Kubernetes, Ansible, TensorFlow, PyTorch, scikit-learn, Model deployment, ML pipeline automation
Tools & Technologies: Git, GitHub, JIRA, Visual Studio, GraphQL, OpenSearch
Software development methodologies: Agile, Scrum
Software design patterns and best practices, Problem-solving and analytical skills, Excellent communication and teamwork.

COURSEWORK

Big Data, Dataset Search & Discovery, Software Engineering, Design & Analysis of Algorithms, Information Security & Privacy.

INTERESTS

Software Engineering, Machine Learning, DevOps, Data Engineering, Cyber Security, Open Source Software, Mentoring.

PROJECTS

BAM (Big Apple Move)
- Developing a web application, BAM, to provide comprehensive information on various neighborhoods and areas in NYC, including noise level, crime, safety, transportation, and surroundings.
- Implemented an interactive user interface using Vue.js, ensuring a dynamic and user-friendly experience.
- Built a scalable and secure back-end using Django, handling server-side operations, data storage, and user authentication.
- Managed data storage and retrieval using MySQL, ensuring efficient and reliable storage of information on neighborhoods, real estate listings, user profiles, and forum posts.
- Deployed the application on AWS, ensuring scalability and security for the application.
- Collaborated with a cross-functional team to deliver a high-quality and well-designed product that exceeded user expectations.

Improper Limitation of a Pathname to a Restricted Directory ('Path Traversal') Solution
- Designed and implemented a solution to address the vulnerability of Path Traversal in CI/CD system plugins.
- Validated input with respect to the base directory and used a filesystem path validation check to canonicalize the path.
- Conducted a thorough evaluation of the solution by testing against a python code that simulated a real-world scenario.
- Observed that the implementation effectively secured the code against common payloads and attack techniques.
- Demonstrated ability to implement effective solutions that protect sensitive data and ensure the delivery of applications.

GitLit
- Built GitLit, a social platform for open-source software developers to connect and collaborate on relevant projects.
- Utilized Django, MySQL, GraphQL, & React to build a seamless and intuitive platform for developers as a part of the hackathon.
- Facilitated networking opportunities for developers to connect, share their projects, and showcase their skills.
- Created a platform that meets the needs and demands of the open-source software developer community.

EXPERIENCE

Software Developer, BeeHyv Software Solutions, Hyderabad, India   01/2022 – 07/2022
- Led integration of crater, an open-source invoicing solution, into Bahmni as payments-lite squad leader. Oversaw project planning, new feature implementation, and bug fixing.
- Collaborated with the team to integrate crater into Bahmni, streamlining payment process & improving efficiency for clients.

Backend Developer, Bitergia, Madrid, Spain   10/2020 – 12/2021
- Automated process to generate & publish release notes to GitHub, enhancing team efficiency and ensuring documentation accessibility.
- Contributed to development, documentation, and maintenance of GrimoireLab toolchain solutions with the working group, using expertise to improve user-friendliness for clients.
- Served as Community Manager for GrimoireLab, responsible for managing community and facilitating collaboration & idea sharing among members.

ACTIVITIES

Mentored junior members as an active member of amFOSS, a student-run open source club.
Selected as a Google Summer of Code 2020 participant with CHAOSS and GrimoireLab.
Qualified for InCTF 2019 finals, India's Premier Hacking & Cyber Security contest.
Volunteered for Amritavarsham, organized by Mata Amritanandamayi Math.
Contributed to various open-source projects like OpenSearch, Perceval, coveralls, coveralls-python, radish, poetry-python, etc.