

Venu Vardhan Reddy Tekula

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EDUCATION

New York University, Tandon School of Engineering
Master of Science (MS) in Computer Science | **GPA: 3.8/4.0**

Brooklyn, NY
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.

EXPERIENCE

DevOps Engineer, FloodNet NYC, New York, US 03/2023 – Present

- Leveraged cloud orchestration tools, such as Terraform and Node-RED, to automate infrastructure provisioning, configuration, and management across multiple cloud platforms, resulting in increased operational efficiency and reduced manual effort.
- Designed, built, and deployed containerized applications using Docker, Kubernetes, and Directus, streamlining development, testing, and deployment processes, and improving overall application scalability and reliability.
- Actively participated in the open sourcing of several internal projects, fostering a culture of collaboration, and contributing to the broader software development community.

Software Developer, BeeHyv Software Solutions, Hyderabad, India 01/2022 – 07/2022

- Led the integration of Crater, an open-source invoicing solution, into Bahmni as the Payments-Lite Squad Leader.
- Utilized Docker, Kubernetes, Helm, Terraform, AWS, GitHub Actions, and Jenkins to integrate Crater into the Bahmni infrastructure to offer Bahmni SaaS and Bahmni Lite services..
- Collaborated with the team, streamlining the payment process and improving efficiency for clients.
- Developed and maintained an atom-feed service, enabling data transfer between services & improving data transfer efficiency.
- Oversaw project planning, implementation of new features, and bug fixing.

Backend Developer, Bitergia, Madrid, Spain 10/2020 – 12/2021

- Contributed to the development and maintenance of Bitergia Analytics, a software solution that provides insights into the health of software development projects for teams across multiple companies including Google, GitLab, and HashiCorp.
- Implemented new features and enhancements to the platform, including support for additional data sources.
- Automated process to generate & publish release notes to GitHub, ensuring documentation accessibility.

INTERESTS

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

PROJECTS

BAM (Big Apple Move)

- Developed a web application, BAM, to provide comprehensive information on various neighborhoods and areas in NYC, including noise level, crime, safety, transportation, and surroundings.
- Built a scalable and secure back-end using Django and MySQL, handling server-side operations, reliable storage of information on neighborhoods, real estate listings, user profiles & forum posts, and user authentication.
- 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.

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.
- Created a platform that meets the needs and demands of the open-source software developer community.

ACTIVITIES

General Secretary - Graduate Indian Student Association

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.