

# 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.

## 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, REST API 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.
- 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 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.
- Worked on the deployment and scaling of the Bitergia Analytics platform using Docker, Jenkins, and Kubernetes.
- 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.
- Provided technical support, ensuring timely resolution of issues and maintaining a high level of customer satisfaction.

## 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.