

Venu Vardhan Reddy Tekula

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EDUCATION

New York University, Tandon School of Engineering
Master of Science (MS) in Computer Science | **GPA: 3.9/4.0**

Brooklyn, NY
09/2022 – 05/2024

SKILLS

Programming languages & Frameworks: Python, JavaScript, Java, React, Vue.js, Django, Ruby on Rails.

Databases & Cloud platforms: PostgreSQL, MySQL, MongoDB, AWS, Azure.

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. Automation led to a 65% reduction in manual effort, and a 30% improvement in operational efficiency.
- Designed, developed, and deployed containerized applications using Docker, Kubernetes, and Directus, streamlining development, testing, and deployment processes for a system handling 100+ users and processing 10GB of data daily.
- Championed open sourcing of several internal projects, resulting in establishment of a collaborative culture and a more significant contribution to broader software development community. Initiative led to open sourcing of two projects, ultimately enhancing quality and performance of projects by 35%.

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, streamlining billing processes for 200+ hospitals and clinics. Integration enhanced financial tracking, reduced payment processing time by 40%, and increased overall user satisfaction by 45%.
- 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.

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

- Boosted development & maintenance of Bitergia Analytics, a software solution providing vital insights into health of software development projects for teams across high-profile companies Google, GitLab, & HashiCorp. By incorporating new features, enabled 20% faster decision-making for over 500 teams globally.
- Revolutionized process to generate and publish release notes to GitHub by implementing automation, ensuring documentation accessibility. Improvement slashed manual effort by 80%, accelerated release process by 50%.

INTERESTS

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

PROJECTS

BAM (Big Apple Move) — bamnyc.pythonanywhere.com

Created innovative web application, using Django & MySQL to provide comprehensive information on various neighborhoods and areas in NYC, aggregating data on noise level, crime, safety, transportation, and surroundings for 300+ locations. Platform helped residents and tourists make informed decisions and fostering a 20% increase in positive community engagement.

VisaGPT — visagpt.streamlit.app

Developed and implemented VisaGPT, an innovative chatbot utilizing Streamlit, OpenAI, and Langchain technologies to provide accurate and up-to-date immigration information. Extracted documents from the USCIS website using web scraping techniques and indexed them. Engineered a conversational interface application based on the data indexed to the OpenAI model.

GitLit

Established GitLit, a dynamic social platform for open-source software developers to connect and collaborate on over 2,000 relevant projects. Employed Django, MySQL, GraphQL, and React to construct a seamless and intuitive platform for developers during a hackathon. Solution attracted over 100 live participants, praised its user-friendly design, and a top-three placement.

ACTIVITIES

Treasurer - 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 OpenSearch, Perceval, coveralls, coveralls-python, radish, poetry-python, etc.