

Venu Vardhan Reddy Tekula

Curriculum Vitae

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DOB: May 28, 1998

Area of Interests

Software Health and Evolution, Machine Learning, Open Source, Data Analytics.

Education

- July 2016 - **Bachelor's of Technology**, *Computer Science and Engineering*, Amrita School of Engineering, Amrita Vishwa Vidyapeetham, Kollam, India. CGPA: 8.26/10.0.
- July 2020
- 2014 - 2016 **Higher Secondary**, Narayana Junior College, Hyderabad, India. Marks: 95.1%.
- 2014 **Secondary**, Dilsukhnagar Public School, Hyderabad, India. GPA 9.8/10.0.

Publications

- 2020 Iterative Text-to-Image conversion using Recurrent Generative Adversarial Models, Vinay Varma Nadimpalli, **Venu Vardhan Reddy Tekula**, Sumanth Javvaji, Sedimbi Satya Pramod, and Jyothisha J. Nair, in 3rd International Conference on Interdisciplinary Research (**ICIR 2020**).

Experience

- November 2021 Hackathon Support Co-Chair, **MSR 2022**.
 - Present Joined the GrimoireLab MSR Virtual Hackathon Committee Team as a Support Co-Chair for the Mining Software Repositories Conference 2022. The MSR conference is the premier conference for data science, machine learning, and artificial intelligence in software engineering.
- June 2021 - Community Manager, **Grimoirelab**, **Bitergia x CHAOSS**, Remote.
 - Present Working on fostering and growing the GrimoireLab Community. My responsibilities include engaging the community, clarifying the doubts, and helping the new contributors. In addition, I was also involved in organizing outreach programs like the GSoD, Summer OSPP.
- October 2020 - Backend Developer (Temporary), **Bitergia**, Spain/Remote Work.
- April 2021 Bitergia helps companies and organizations by understanding and improving the software development projects that matter to them. I worked on creating an automatic packaging & release workflow of the GrimoireLab toolset using the release-tools, poetry, and github actions.
- January 2019 - Open Source Contributor, Student Developer (GSoC) **CHAOSS** - The Linux Foundation.
 - September 2020 CHAOSS is an Open Source project focused on creating analytics and metrics to help and define community health. GrimoireLab is a set of free, open-source software tools for software development analytics. I work closely with the **GrimoireLab WG** that maintains the project. I also worked as a Student Developer on the project "Creating Quality models using GrimoireLab and CHAOSS metrics" as a part of the **Google Summer of Code Program 2020**.
- July 2016 - Member and Student Mentor, **FOSS@Amrita**, Amrita Vishwa Vidyapeetham, Amritapuri.
- April 2020 amFOSS (Open Source Club of Amrita) trains students to contribute to free and open-source software and skill development. I actively mentor juniors and participate in various club activities.
- July 2019 - Summer School Student, **Ben-Gurion University of the Negev**, Beersheba, Israel.
- August 2019 Got selected for a one-month summer course on Data Mining and Business Intelligence with its applications in Cyber Security at BGU, Israel.

Open Source Projects

- January 2021 - **release-process-automation**
June 2021 Created an automatic packaging & release workflow of the GrimoireLab toolset using the release-tools, poetry, and github actions. Designed this workflow to manage the releases of GrimoireLab with proper versioning and release notes.
<https://github.com/vchrombie/release-process-automation>
- May 2020 - **Creating Quality models using GrimoireLab and CHAOSS metrics**
August 2020 The main aim of the project is to design an approach to shape the GrimoireLab data in a format that can easily be consumed by Prosoul and implement it on the data obtained from a few data sources like git, github and mailing list repositories to obtain simple quality models.
<https://github.com/vchrombie/gsoc>
- May 2020 **GrimoireLab: Perceval backend plugin for Zulip**
Worked on creating a perceval backend plugin for Zulip data source. Perceval is the GrimoireLab component that collects data from different data sources and returns it as JSON documents. Created a set of third-party community maintained backends for Perceval.
<https://github.com/vchrombie/grimoirelab-perceval-zulip>
<https://github.com/perceval-backends>
- December 2018 **GitLit**
It is a social networking site exclusively for OSS developers. Built with Django, GitHub GraphQL, Bootstrap, and Saas. It works by connecting enthusiastic developers to the most interesting and relevant projects and forming new communities of like-minded and passionate developers.
<https://gitlab.com/amfoss/gitlit>

Academic Projects

- September 2019 - **Iterative Text-to-Image conversion using Recurrent GANs (Tell, Draw, Undo, Repeat)**
March 2020 Dr. Jyothisha J. Nair, Dept. of CSE, ASE, Amritapuri.
Bachelor Thesis
We propose a novel Recurrent GAN model architecture that can generate 2-D images from input text in an iterative manner. This is different from the one-step text-to-image generation as the model will be given continuous instructions carrying information on how to modify the most recently generated image.
<http://sersc.org/journals/index.php/IJAST/article/view/22267>
- August 2019 - **Stock Market Prediction using LSTM**
October 2019 Veena G, Dept. of CSE, ASE, Amritapuri.
15CSE481:Machine Learning and Data Mining Lab
This project is about analyzing and predicting the stock prices of Google using Artificial Recurrent Neural Network (RNN) architecture. This is a Regression problem.
<https://github.com/vchrombie/shuri>
- July 2019 - **Analysis of Phishing Detection using SHAP**
August 2019 Dr. Yisroel Mirsky, Shai Cohen, Dept. of SISE, BGU, Beersheba.
I worked on the research project of BGU Cyber Labs, Phishing Detection during the Summer School program at BGU. The motive of the project to extract the important features contributing to the project and make an analysis using the SHAP tool. Used Python and Jupyter Notebooks.
<https://github.com/vchrombie/pd-shap-analysis>
- August 2018 - **Malicious Web Content Detection using Machine Learning**
November 2018 Dr. Sajeew G P, Dept. of CSE, ASE, Amritapuri.
15CSE265:Scientific Computing
A Chrome Extension checks the website you are browsing, and categorizes it into SAFE/MALICIOUS, using the Random Forests Model. Built using Python, PHP, HTML/CSS.
<https://github.com/vchrombie/cap-america>

July 2018 - **EcoTourism@Lambasingi** *Student Social Responsibility Project*
August 2018 We organized a 4-day campaign to *promote cleanliness* in a *remote place Lambasingi*, which is one of the villages in Andhra Pradesh near Visakhapatnam as a part of the *SSR Project*.

Open Source Contributions

OpenSearch Dashboards, opensearch-py, Bitergia/release-tools, coveralls-python

Institute Positions

2019 **Head Coordinator**, Data Science Team | FOSS@Amrita.
2016 - 2019 **Student Coordinator**, Amritavarsham | MAM, Amritapuri.
2018 **Head Coordinator**, Social Media Team | FOSS@Amrita.
2016 - 2019 **Student Coordinator**, Amala Bharatham Campaign (ABC) | MAM, Amritapuri

Teaching and Mentoring

2021 **Mentor**, Google Summer of Code | CHAOSS. [Link](#)
2021 **Mentor**, Summer of Open Source Promotion Plan | CHAOSS. [Link](#)
2019 **Chief Coordinator**, Road To Excellence. | CIR@Amrita x FOSS@Amrita.

Talks

July 2021 **Introduction to GrimoireLab and more**
CHAOSS Beijing Meetup, Virtual Event. [YouTube](#)

Technical Skills

Programming PYTHON, JAVA, JAVASCRIPT
OS GNU/Linux
Tools L^AT_EX, Jupyter, Git & GitHub/GitLab, MySQL, Docker, Elasticsearch, Kibana.
Frameworks Django, Flask, Vue.js

Achievements

InCTF, 2019 Got selected for the finals after finishing the Qualifier round of Amrita InCTF 2019, India's First Capture the Flag Cybersecurity Contest.
Summer Student, 2019 Got selected as a student to the Data Mining and Business Intelligence with application in Cyber Security Summer Program at Ben-Gurion University of the Negev (BGU), Israel with 92% scholarship and 400 USD stipend.
RM Merit Scholarship Academic Fee Waiver awarded based on Rudra Memorial Scholarship Aptitude Test (RM-SAT) for three consecutive academic years (2010-11, 2011-12, and 2012-13) in high school.

Coursework

Core Courses Database Management Systems, Functional Programming, Data Structures and Algorithms, Object-Oriented Programming, Scientific Computing, Design and Analysis of Algorithms, Software Engineering, Natural Language Processing, Information Retrieval.
Lab Courses Database Management Systems Lab, Data Structure Lab, Object-Oriented Programming Lab, Operating System Lab, R for Data Science.

Languages

English Fluent
Hindi, Telugu Native