

Venu Vardhan Reddy Tekula

Curriculum Vitae

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DOB: May 28, 1998

Education

- July 2016 - **Bachelor's of Technology, Computer Science and Engineering**, ASE, Amrita Vishwa Vidyapeetham, Kollam, India. CGPA: 8.26/10.0.
- May 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.

Experience

- October 2020 - Backend Developer, **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 a automatic packaging & release workflow of the GrimoireLab toolset using the Bitergia/release-tools, poetry and github actions. Contributed to the some of the main features of the release-tools tool. Created CI/CD systems for various python tools with ELK, Django frameworks. In addition, I was also involved in mentoring, on-boarding and dissemination activities around GrimoireLab.
- July 2016 - Member and Student Mentor, **FOSS@Amrita**, Amrita Vishwa Vidyapeetham, Amritapuri.
- April 2020 amFOSS (Open Source Club of Amrita) trains students encourage contributions to free and open source software and skill development. I actively mentor juniors and participate in various club activities.
- January 2019 - Open Source Contributor, Student Developer (GSoC) **CHAOSS** - The Linux Foundation.
- Present It is an Open Source project focused on creating analytics and metrics to help and define community health. I work closely with the **GrimoireLab WG** which mainly focuses on developing the GrimoireLab toolchain and also in connecting it with metrics work in other CHAOSS working groups. GrimoireLab is a set of free, open source software tools for software development analytics.
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**. In addition, I was also involved in organizing outreach programs like the Google Season of Docs.
- July 2019 - Summer School Student, **Ben-Gurion University of the Negev**, Beersheba, Israel.
- August 2019 I was selected for a one-month summer course on Data Mining and Business Intelligence with its applications in Cyber Security at BGU, Israel with a scholarship and stipend.

Open Source Projects

- October 2020 - **release-tools**
- April 2021 Contributed to the Bitergia/release-tools project which is a set of tools to generate GrimoireLab releases. With this package, GrimoireLab maintainers are able to automate many of the boring and time consuming tasks related with packages and releases. Developed and tested many key functionalities of the tools. Worked on adding documentation and setting up the CI/CD for the project. Created a automatic packaging & release workflow of the GrimoireLab toolset using the release-tools, poetry and github actions.
<https://github.com/Bitergia/release-tools>

- 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. I was selected as a Student Developer to work on this project as a part of GSoC Program 2020.
<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 which collects data from different data sources and returns as JSON documents.
<https://github.com/vchrombie/grimoirelab-perceval-zulip>
- October 2019 **Community Hacktoberfest Tracker**
I started this project during the Hacktoberfest season. A simple web-app which gives the hacktoberfest stats of your whole community. Built using Flask, Bootstrap and GitHub API.
<https://github.com/snitch3s/hackbunch>
- 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 to them and forming new communities of like-minded and passionate developers. It works by generating suggestions to user, based on the scores of user and repository calculated based on a set of predefined metrics, through Collaborative Filtering. Made this as a part of the Hackference hackathon.
<https://gitlab.com/amfoss/gitlit>

Academic Projects

- September 2019 - March 2020 **Iterative Text-to-Image conversion using Recurrent GANs (Tell, Draw, Undo, Repeat)**
Dr. Jyothisha J. Nair, Dept. of CSE, ASE, Amritapuri.
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. The aim of the proposed model is to march towards a complete capacity of interactive text-to-image generation and to enhance the user experience from a Human-Computer Interaction (HCI) perspective.
<http://www.testmagazine.biz/index.php/testmagazine/article/view/8912/6787>
- August 2019 - **Stock Market Prediction using LSTM**
October 2019 Veena G, Dept. of CSE, ASE, Amritapuri.
This project is about analyzing and predicting the stock prices of Google using Artificial Recurrent Neural Network (RNN) architecture. This is a Regression problem. This was made as a part of the project work for the course 15CSE481:Machine Learning and Data Mining Lab.
<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 for one month as a part of the *Data Mining and Cyber Security Summer Program*. The motive of the project to extract the important features contributing to the project and make an analysis using SHAP tool. Used Python and Jupyter Notebooks.
<https://github.com/vchrombie/pd-shap-analysis>

- March 2019 - **Black Friday Sales Problem**
 April 2019 Dr. Vivek Menon, Dept. of CSE, ASE, Amritapuri.
 This project is the team submission for the black-friday-sales Kaggle problem. This was made as a part of the project work for the elective course 15CSE387/2:R for Data Science. Used R and RStudio for completing the challenge.
<https://github.com/vchrombie/black-friday-sales>
- August 2018 - **Malicious Web Content Detection using Machine Learning**
 November 2018 Dr. Sajeev G P, Dept. of CSE, ASE, Amritapuri.
 This is made as a part of the course 15CSE265:Scientific Computing. A Chrome Extension which checks the website you are browsing, and categorize 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*.

Institute Positions

- January 2019 - **Head Coordinator, Data Science Team | FOSS@Amrita.**
 December 2019 It is a competitive collegiate data science team. Together, we compete against professional and amateur data scientists from around the world in online prediction challenges.
- May 2019 **Chief Coordinator, Road To Excellence.**
 I served as the Chief Coordinator for the Data Analytics with Python workshop in the RTE internship program conducted by CIR@Amrita in with the collaboration with FOSS@Amrita.
- September 2019, 2018, 2017, 2016 **Student Coordinator, Amritavarsham | MAM, Amritapuri.**
 Amritavarsham is the birthday celebration of Mata Amritanandamayi Devi, popularly known as "**Amma**". I volunteered two years for Venue Maintenance and two year for Plate Washing Seva.
- January 2018 - **Head Coordinator, Social Media Team | FOSS@Amrita.**
 December 2018 It manages the Social Media accounts of the club and keeps them updated with the achievements and activities happening in the club.
- August 2019, 2018, 2017, 2016 **Student Coordinator, Amala Bharatham Campaign (ABC) | MAM, Amritapuri**
 ABC is a campaign aimed at cleaning India's public places, national highways and tourist places. Every year, it is held on the occasion of the India's Independence Day.

Technical Skills

- Programming PYTHON, C++
 OS GNU/Linux
 Tools L^AT_EX, Jupyter, Git & GitHub
 Tech Stack & Frameworks ELK stack (Logstash, ElasticSearch, Kibana), Django, Flask

Achievements

- InCTF, 2019 Got selected for the finals 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.

Coursework

Core Courses Database Management Systems, Functional Programming, Data Structure, 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 Fluent