

Vamsi Gabbita

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Seeking a full-time position as a Software Engineer

Education

Bachelor of Science Computer Science, Texas Tech University, Lubbock, TX

Aug 2019 - Dec 2023

High School Diploma, Heritage High School, Frisco, TX

Aug 2015 - June 2019

Professional Experience

Cloud Application Analyst Intern, [OpenText](#)

Aug 2021 – Dec 2021

- Analyzed cloud applications, identified user functionalities, and classified the associated URLs.
- Tested the mapping of URLs to user function on web browser or web proxy.
- Documented steps to trigger cloud application functionalities for automation.
- Analyzed URLs and IP addresses and took informed decisions on security risks found.
- Supported classification projects for Threat Intelligence Partners, targeting various markets across the globe.

Assistant, Texas Tech University - Library Services

Nov 2020 – Dec 2023

- Assisted students and faculty at the circulation/ service desks.
- Helped students and faculty use print and online resources as well as library equipment/ technology.
- Maintained library organization by sorting, shelving, and shifting books within library stacks.

Skills and Tools

- Python, C, C++, Java, Git, Microsoft Office, React, MySQL, Mongo-DB, HTML, CSS, Jira

Projects

- [Zombie Survival Game \(Python\)](#): As a team, developed a retro two player 2D zombie survival game using pygame, for a hackathon event hosted by Texas Tech Google Developers club. Contributed towards zombie spawns, characters hit collisions, player health and ammo.
- [Self-Driving Car \(Python\)](#): Developed a Deep Q network reinforcement learning algorithm to train model. Utilized Python, PyTorch to build the neural network with tensors and integrated Kivy framework to facilitate the development of interactive GUIs.
- [Slot Machine \(Python\)](#): Engineered a Python-based slot machine application, leveraging principles of algorithmic randomness, object-oriented programming, and game development.
- [Language translation model \(Python\)](#): Engineered a PyTorch-based sequence-to-sequence translation model for English to Portuguese, optimizing architecture and hyperparameters. Executed data preparation, including test dataset curation and multiple training epochs, showcasing proficiency in deep learning and model optimization.
- [Modified Cellular Life Simulator \(Python\)](#): Built a multi-processing application without any special libraries to simulate N^{th} mutation for complex cellular matrices with emphasis on run time in a specific compute env.
- [Movie Booking System \(Java, MySQL\)](#): As a team, partly developed and extensively documented purpose, scope, product overview, functionality, operating environment, and design details.
- [Secure Healthcare System \(Python\)](#): Engineered and implemented a secure healthcare system in Python, incorporating advanced security measures such as 2-factor authentication, threat modeling, and UML driven design. Applied object-oriented programming principles to fortify critical use cases, ensuring elevated levels of data and security.