VENKATA SATYA KOPPULA

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PROFILE

Professional software engineer with an excellent background in full-stack web development, system optimization, and API development. Demonstrated ability to use cache to drastically reduce API response times and minimize application load by 40% and committed to providing effective, scalable solutions using modern frameworks such as Flask, Django, and Docker.

WORK EXPERIENCE

Scaleinfinite, *Internship* ↗   Nov 2022 – Sep 2023 | Paris, France
• Developed RESTful APIs using **Flask** and **Docker** to optimize application performance and improve user experience.
• Improved over 20 code components using the refactoring of **PostgreSQL queries** and improvement in SQL logic to offer a reduction of approximately 40% in the load times of the application, improving greatly in terms of reliability and maintainability. Writing Unit tests for the codebase using **Unittest** Framework
• Implemented frontend caching techniques to reduce **API** response times from 150-250ms to 10-20ms.
• Diagnosed and resolved backend inefficiencies through a custom **Python** script, automating the reclamation of unused Public **IP** addresses and streamlining the process, resulting in over 50 IP addresses reclaimed monthly.

PROJECTS

Book Finder using Raspberry pi., *A full stack RESTAPI project* ↗
This is my final year project. Django rest framework, Nginx, and Cloudflare are used in the backend. Front-end is a web app built using PHP and jQuery. DRF communicates with Raspberry Pi to find a specific book. A light will be turned on at the book location.

Online Blogging System, *php blogging app* ↗
The Project was built using HTML, CSS, JS, and PHP. Common functionalities, such as login, signup, creating a blog, deleting a blog, editing a blog, etc., are implemented. The admin interface was implemented for managing Blog Content.

Movie Playlist, *A full stack website* ↗
Build a complete web application where users can log in and sign up, search for movies, add movies to playlists, make their playlists public, and share the link. The project was built using the Django framework and Bootstrap, and OMDB API was used to fetch the movie details. Deployed the website on a Linux server using apache2

SKILLS

Python | PHP | Linux | Django restframework | Java | CSS | HTML | Docker | Mysql | React | Vue | Javascript | Git | C/C++ | Django | BootStrap | Kubernetes | Docker | Github | Communication | PostgreSQL | Networking | Programming | Shell Scripting | PySpark | ExpressJS | Testing | Debugging | Data Analysis | CI/CD | Azure | Microservices | Angular | MongoDB | OOP | NodeJS | MS SQL server | AWS | System Design Patterns | Angular

EDUCATION

State University of New York at Buffalo, *Master's in computer science* ↗   Aug 2023 – present | Buffalo, United States
Courses: Database Systems, Intro to ML, Operating Systems, Computer Architecture, Analysis of Algorithms and Design, Data Intensive Computing, Network and Communications
The State University of New York at Buffalo
CGPA 3.52 / 4 (FALL23)

PUBLICATIONS

A Study on Modern Methods for Detecting Mobile Malware, *IRJET* ↗
The study examines several detection methods, from the most accurate to the least effective, and covers the most recent mobile malware detection approaches in Android and iOS, we have filtered 218 papers and have done extensive study on various malware detection techniques which are recent and innovative.