VENKATA SATYA KOPPULA

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SUMMARY

Software Engineer with 1+ years of experience in designing, developing, and deploying scalable web apps.

EDUCATION

Master of Science: Computer Science, The State University of New York at Buffalo, Buffalo, December 2024
CGPA: 3.5/4, Courses: Database Systems, Introduction to ML, Computer Architecture, Data Intensive Computing, Analysis of Algorithms and Design, Intro to Entrepreneurship.
Bachelor of Technology: Computer Science & Engineering, VIT , Vellore, India, May 2023
CGPA: 9/10, Courses: Distributed Computing, Cryptography Fundamentals, Operating Systems.

WORK EXPERIENCE

Infodat Inc| Frontend Developer**:**   Houston, TX, February 2025 – Present
- Developed responsive, user-friendly patient portals using **Angular** and **Material UI**, focusing on contemporary UI/UX design.
- Implemented reusable components, pages, and HTTP service logic in **TypeScript** and unit test in Jest.
- Deployed and maintained application builds in Azure for each sprint, allowing continuous delivery and **agile** development processes.

Scale infinite | Software Developer**:**   Remote, November 2022 – November 2023
- Engineered and deployed scalable **RESTful APIs** using **Flask**, **Docker**, and **Kubernetes**, optimizing application performance and enhancing user experience, resulting in a 30% reduction in response times.
- Refactored over 20 code components by optimizing **PostgreSQL** queries and improving SQL logic, achieving approximately a 40% reduction in application load times and enhancing reliability and maintainability.
- Implemented frontend caching techniques using **PHP and jQuery** to reduce API response times from 150–250ms to 10–20ms, significantly enhancing performance.
- 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 being reclaimed monthly.

PROJECTS

Intelligent Book Locator System using Raspberry pi:
- Built a scalable backend system using Django REST Framework (DRF), reducing API response time by 40% through Nginx caching, Utilized Nginx reverse proxy and custom bash scripts to remotely control LED lighting systems .
- Engineered a mobile friendly application front-end with PHP and jQuery, enhancing user engagement by 35% through improved navigation and interactive features tailored to diverse user needs.

Movie Playlist Manager:
- Designed and developed a full-featured web application as a personal project, enabling user registration, login, movie search, personalized playlists, and public link sharing, demonstrating expertise in building scalable and user-centric platforms.
- Integrated the OMDB API to fetch movie details dynamically, processing 5,000+ API requests during development.

SKILLS & TOOLS

Languages: Java, Python, C/C++, JavaScript, TypeScript, PHP, Bash, HTML5, CSS3.
Soft Skills: Communication, Problem Solving, Creativity, Teamwork, Active listening, Agile Methodologies.
Database Systems: SQLite, NoSQL (MongoDB), MySQL, DynamoDB.
Tools: Postman, CI/CD (Jenkins, Circle CI), GitLab, Git, GitHub, Grafana, Prometheus, Redis, Azure Devops.
Frameworks: Kubernetes, Angular, Vue, Django REST framework, Django, Tailwind CSS, Docker, PyTest, Jest GraphQL, Hadoop, Spark, Flask, Socket.io, ExpressJS, Swagger UI.
Platforms: Linux/Unix (CentOS, Debian), Windows server.