

Srinivas Mekala

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Aspiring Software Engineer with a robust foundation in computer science, specializing in web application design and development. Demonstrated proficiency in Python and NextJS, coupled with adeptness in cloud technologies, including AWS, Docker, and Jenkins.

Professional Experience

Software Engineer, OneAssure 📍 11/2023 – 06/2024 | Bengaluru, India

- Developed and maintained microservices for User and Admin functionalities using Flask and MongoDB.
- Refactored legacy code and implemented Role-Based Access Control (RBAC) across all systems to enhance security and maintainability.
- Utilized Agile methodology to deliver software solutions in a collaborative team environment.
- Took ownership of key features, driving the development process from planning through to production.
- Integrated external APIs from major health insurers to enhance application features and streamline user interactions.
- Worked closely with cross-functional teams to align feature development with business goals, contributing to the overall success of the project.
- Applied industry best practices by containerizing the application with Docker, orchestrating with Kubernetes, and deploying on AWS.

Technologies working with: MongoDB, Flask, Docker, Kubernetes, Next.js, TypeScript, TailwindCSS

Software Engineer Intern, OneAssure 07/2023 – 10/2023 | Bengaluru, India

- Developed a new, responsive user interface for the application using Next.js, Tailwind CSS, and Redux, improving user engagement and performance.
- Collaborated with the backend team to integrate APIs from major health insurers, extending the functionality of the application.
- Contributed to cross-functional team discussions to align front-end development with overall project goals and back-end services.
- Gained hands-on experience in full-stack development, working in an Agile environment to deliver scalable and maintainable solutions.
- Actively participated in code reviews and team meetings, contributing ideas to improve coding standards and software architecture.

Technologies worked on: Flask, Python, MongoDB, Docker, Next.js, Google Firebase, TailwindCSS etc..

Backend Development Intern, Kalakumbh 📍 03/2023 – 07/2023 | Remote

- Developed Backend server using **Python** and **Flask** to support core features of a social media platform for musicians and singers.
- Utilized **MongoDB** for the primary database and implemented **Redis** for efficient cache management, optimizing server performance.
- Built and integrated user authentication using **Twilio** services, ensuring secure user login and account management.
- Implemented real-time chat functionality using **SocketIO** to facilitate seamless communication between users.
- Managed server testing and deployment processes, ensuring stability and performance on **AWS EC2**.
- Leveraged **Docker** for containerization, streamlining development, testing, and production workflows.
- Collaborated with team members using Git and **GitHub** for version control and code management.

Skills

Python | Flask | MongoDB | JavaScript | React.js | TypeScript | Next.js | TailwindCSS | REST API |
Git & GitHub | CI/CD - Jenkins | Docker | AWS

Education

Masters in Data Science, University at Albany, SUNY, NY

08/2024 – present | Albany, United States

Coursework: Programming for DataScience

B.Tech in Electronics and Computer Engineering (ECM),

2019 – 2023 | Hyderabad, India

Sreenidhi Institute of Science and Technology

Coursework: Software Engineering, Database Systems, Algorithms and Data Structures, Web Development, Computer Networks

Personal Projects

ArtKart, Sell you Imagination


10/2024 – present

- Developing a **eCommerce + social media platform** for artists to showcase and sell or auction their work (paintings, music, photography, etc.)
- Built responsive, interactive UI with Next.js and Tailwind CSS
- Implementing Flask backend with MongoDB for database management and handling bid/sale transactions
- Following GitHub best practices and conventional commits for efficient versioning and collaborative development

Technologies used: Next.js, Tailwind CSS, Flask, MongoDB, Git

Chatopia

06/2023 – 07/2023

- Designed and developed Chatopia, a social chat application allowing users to create/join rooms and meet new people in random rooms
- Built using Python, Flask, MongoDB, and Socket.IO  for real-time messaging and persistent data storage
- Implemented responsive UI with HTML and Tailwind CSS, focusing on user engagement and fun design elements

Technologies used: Python, Flask, MongoDB, and Socket.IO , HTML and Tailwind CSS

Beyond The Binary, An Event page for Hackerabad

02/2022

- Led a team of 4 to develop a virtual event website for the **Beyond The Binary** event organized by **Hackerabad**
- Developed the landing page, team, and timeline sections using HTML, CSS, and JavaScript
- Provided guidance and mentorship to junior team members, facilitating their learning and mastery of new technologies
- Deployed website on GitHub Pages

Technologies used: HTML, CSS, and JavaScript, Github Pages

Giphy Search, get gifs in one click

07/2022

- Created a GIF search application allowing users to search and retrieve GIFs based on keywords
- Built with HTML, CSS, JavaScript, and implemented the Giphy API for backend functionality using RESTful standards
- Designed a simple and intuitive UI to ensure ease of use and quick access to relevant GIFs

Technologies used: HTML, CSS, JavaScript, Giphy REST APIs

Community and Volunteer Experience

Mentor & Finance Lead, Hackerabad

01/2022 – 02/2023 | Hyderabad, India

I'm a Mentor and also the former Finance Lead at Hackerabad a developer community. I guide and help members of the community in technology by teaching them, introducing them to new tech stacks and exploring alongside them. I've organized few events:

- **ABCD (AnyBody Can Develop)** a two-day workshop to get started with Open Source
- **Beyond The Binary** a 6-episode talk series that introduces students to career opportunities in tech.
- **What The Hack?**, an eye-opening open session where we introduced the term "Hack" to students.

Assistant Regional Manager & Organizer, CodeDay Hyderabad

05/2022 – 11/2022 | Hyderabad, India

CodeDay is a 24-hour-long programming event for high schoolers where they build projects based on their interests and experience their first Eureka moment in tech. I have been a lead to the Outreach, Logistics, and Finance teams. I took a workshop on Game development using **Microsoft MakeCode** and also mentored students in the **Web Development** track during the event. I also won an award called "**Paragon Award**" given to the organizers who worked beyond their limit for the event.