harshith sheggam
Software Engineer

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Summary

Seasoned Software Engineer with 4+ years' expertise in FullStack development using Python, Node, and ReactJS. Passionate about leveraging technology to elevate lives and dedicated to fortifying web applications for enhanced security. Committed to unraveling complex challenges, delivering top-notch solutions, and leaving an indelible mark in the software engineering landscape

Experience

American Express (Contractor)   Sep 2023 - Dec 2023
Engineer III   Remote

- Scaled Growth Hack portal from **single tenant to multi tenant with in 2 months** with Django Rest Framework .

- Spearheaded a **Data-Driven methodology throughout project,** resulting in flexibility over project.

- Contributed to transitioning away from external dependencies like Elasticsearch, shifting towards leveraging PostgreSQL for comprehensive full-text search capabilities. **Second team in Amex to implement PostgreSQL full text search.**

- Played a pivotal role in crafting custom authentication procedures integrating Amex **LDAP servers with Django backend.**

- Helped in migrating existing **Angular Project to the NextJS.**

- Auto-Mated the deployments using **Github actions CI/CD Pipelines to deploy to the hydra servers.**

FairShares, Inc.   May 2022 - May 2023
Software Engineer   Florida FL
 https://fairshares.com/

- As a **solo developer at FairShares** designed and developed the **FairShare application from the ground up,** a platform that allows users to save tax on dividend's in a fair and transparent way.

- Created a user-friendly frontend interface using **React, DasyUI, Remix, and zustand,** leveraging the latest web technologies and best practices.

- Ensured the security and reliability of the application by implementing user authentication, data validation, and **protection against the top 10 OWASP vulnerabilities.**

- Streamlined the deployment and delivery of the application by automating the **CI/CD process using GitHub Actions and AWS,** while maintaining semantic versioning standards

- **Implemented Session Authentication** and Horizontally scaled API request in **large scale with latency of 99% less than 100 ms**

- **Scaled Django Server's @ 1000 RPS. Custom optimization are done on Gunicorn, Gevents and Django Celery.**

Mutual Mobile   March 2021 - April 2022
Associate Software Engineering   Hyderabad,India
 https://mutualmobile.com/

- Developed and maintained web applications for **fintech clients using Django**

- **Managed web servers on Amazon Web Services (AWS),** using Elastic Beanstalk, a service that automates deployment and scaling of web applications. Implemented **AWS WAF, a web application firewall,** to protect websites from common web exploits and enhance security.

- Worked on the frontend of web applications. Mostly using **MVT approach** where i worked on old school technologies such as v**anila js, Jquery.**

- Collaborated with other engineers and stakeholders using agile methodologies and tools such as **Git, Jira, and Slack**.

- Helped in optimization of parsing CSV. such as using Dask and i have also proposed a **new method using native csv library which as 20x performance improvement compared to Dask on the fly**.

Aptagrim   September 2020 - February 2021
Python Developer   Hyderabad,India

- Collaborated closely with the development team to design and **implement scalable and efficient backend solutions using Django** , ensuring optimal performance of the applications.

- Contributed actively to the debugging and troubleshooting process, effectively resolving issues to maintain the **functionality and reliability of the backend systems**.

- Played a key role in the integration of **third-party APIs such as plaid and stripe**, enhancing the functionalities and features of the applications.

- Engaged in continuous learning and exploration of new technologies, implementing best practices and **innovative approaches to improve server-side functionalities.**

- **Assisted in automation of documentation process such OpenApi V3**, ensuring comprehensive and clear documentation of the backend systems for easy future references and knowledge sharing within the team

Bigadatamatica   April 2020 - September 2020
Python Developer Intern

- Designed, Built, implemented and monitored a AI based Chat-Bot using Rasa Framework. Determined most effective approaches in deploying Chat-Bot for enterprise level,Working closely with clients to establish specifications and Requirements.

Education

City University of New York-College of Staten Island   September 2022 - December 2023
Computer Science   Masters
3.5

SREYAS INSTITUTE OF ENGINEERING & TECHNOLOGY   January 2017 - December 2021
Computer Science and Engineering   Bachelor of Technology - BTech
3.5

Projects

FastApi Admin Pannel.
 https://github.com/sheggamharshith/fullstack_fastapi_template

The FastAPI Admin Panel is a project aimed at creating a user- friendly administrative interface for FastAPI applications, similar to Django Admin Panel. It streamlines user management, offers CRUD operations, and allows for customization to meet specific application requirements. This is project is promising effect to get back the djngo admin

Six Axis Industrial Roboticarm
 https://sheggamharshith.com/projects/robotics/

The project has achieved a significant milestone by successfully developing an advanced six-axis robotic arm. Additionally, a customized PCB was meticulously designed and implemented to ensure optimal performance. The integration of OpenCV played a crucial role in enabling precise object identification, enhancing the arm's capabilities in handling various tasks with accuracy

Publications

Industrial Rod Size Diameter and Size Detection

In the steel industry, cutting Thermo-mechanical treatment (TMT) rods is laborious and reliant on complex machines, sensors, and manual effort. Our research introduces an efficient methodology using digital image processing and computer vision. By enhancing images, detecting rod edges, and calculating diameters from captured images, we've designed a robust system. Our experiments showcase its effectiveness, offering a precise and efficient solution for measuring TMT rods, minimizing errors even under challenging conditions,