Vamshidhar Reddy Beecharlla

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Dedicated and Experienced Python Developer with more than 2.8 years of expertise in designing and crafting resilient Django web applications. Proficient in leveraging Django's MVT design patterns and adept at implementing microservices architecture for scalable solutions. Skilled in utilizing Django, Django Rest Framework, and ORM for building high-performance applications. Well-versed in implementing encryption, stream APIs, and lambda expressions to augment application functionality and fortify security measures.

PROFESSIONAL EXPERIENCE SmallDayITServicesPvtLtd   Nov2021–Present

Software Engineer

Project: OnlineAssessmentApplication

- Designed and developed key components of an innovative online coding assessment platform using Python, Django,jQuery, and Ajax.
- Collaborated seamlessly with cross-functional teams to gather requirements, design features, and ensure a userfriendly experience for candidates and administrators.
- Leveraged AWS services to deploy, manage, and optimize application performance, ensuring high scalability and reliability.
- Conducted thorough code reviews, offering valuable feedback to enhance code quality and maintain coding standards.
- Implemented rigorous unit tests and rigorous debugging procedures, guaranteeing the delivery of robust and bugfree code.
- Employed containerization techniques and AWS Autoscaling for seamless scalability and performance.
- Enhanced data privacy and overall security measures by successfully configuring SSL certificates in Nginx for securing the application's DNS.
- Utilized Continuous Integration and Continuous Deployment (CI/CD) pipelines using CircleCI, facilitating the deployment of the Django application on AWS EC2 instances through an S3 bucket.
- Initiated and led the successful migration from HTML to ReactJS, enhancing the frontend architecture.
- Engineered a dynamic single-page application, leveraging the react-codemirror package for an advanced code editor enabling users to seamlessly write, compile, and execute code within our frontend.
- Pioneered the creation of APIs and functionalities to capture screenshots and snapshots of candidates during proctored assessments, contributing to a robust and secure assessment environment.

- Implemented innovative features to mitigate the possibility of malpractices during assessments, ensuring the integrity and fairness of the evaluation process.
- Managed the integration of the React application on a subpath and orchestrated the reverse proxy setup for the WordPress blog using Nginx, optimizing overall application structure.
- Restructured components and RESTful services using Django Rest Framework following design patterns, emphasizing the Single Responsibility Principle (SRP)improving overall code quality by 15%.
- Collaborated with a cross-functional team to manage Nginx-related issues, ensuring the smooth functioning of the application in a production environment.
- Orchestrated the deployment of the application as microservices, leveraging Docker and Docker Swarm, resulting in a notable 70% reduction in production deployment time and increased overall operational efficiency.
- Integrated logging and monitoring solutions by streaming Docker service logs to AWS CloudWatch, utilizing fluentD driver for efficient log management and monitoring.

Project: Online Aptitude Test (Duration 1 month, while doing an internship in SmallDay):

- **Description**: Developed a web-based aptitude test website using the Django framework. The application allowed users to take online aptitude tests and submit their answers. Results were visible only to the admin. Implemented the MVT design pattern and used an ORM-based MySQL database with multiple connected tables. Created two Django apps for modularity. Technologies: Python, Django, MySQL (ORM), CSS, HTML, JavaScript, Bootstrap

EDUCATION Yogi Vemana University, Kadapa   Aug2020

- Master of Computer Applications, **CGPA-8.0/10**

TECHNICALSKILLS
- Programming languages - Java, Python, JavaScript.
- Frameworks - ReactJS, Django, Django Rest Framework.
- DevOps - Docker, Docker Swarm, Terraform.
- Cloud Platforms -S3, AWS CloudWatch, AWS EC2, AWS Load Balancer.