Tushar Athare

Software Development Engineer II

+91 - 9765123862 | tusharathare18@gmail.com | linkedin.com/in/tusharathare

Dynamic software engineer with a robust background in developing high-performance applications, specializing in Python and Django. Targeting roles in back-end development within the IT industry, with a keen interest in innovative technology solutions.

Technical Skills

- **Languages:** Python & SQL
- **Frameworks:** Django, Django REST Framework, Celery & GraphQL
- **Data Engineering:** Apache Spark, Pandas, NumPy & Dask
- **Messaging:** Apache Kafka & ZeroMQ
- **DevOps/Containers:** Kubernetes, Docker, Kubernetes YAML
- **Databases:** PostgreSQL, MySQL, InfluxDB, Timescale DB & Mongo DB

Core Competencies

- Microservices Architecture
- Database Design & Management
- API Development & Integration
- Version Control
- Testing & Debugging
- Data Processing Techniques
- Software Development Life Cycle
- Agile Methodologies
- System Architecture Design
- Performance Optimization
- API Development Standards
- Continuous Integration and Deployment

Profile Summary

- A result-oriented professional with over 5 years of experience in Software Engineering, with a focus on back-end development and efficient data processing in the IT industry.
- Hold the position of Software Development Engineer-II at Quartic.ai, where the primary duties involve designing and executing innovative software solutions aimed at improving operational efficiency and ensuring system reliability.
- Acquired substantial proficiency across multiple technical areas, such as data engineering and Microservices architecture, while consistently producing high-quality software deliverables.
- Converted legacy REST APIs to GraphQL, resulting in a 20% decrease in query response times. This transition minimized the dependency between the backend and frontend, accelerating development processes by 80%.
- Realized a significant achievement in the current position by creating and implementing multi-tier edge resiliency solutions that guaranteed service availability, maintaining an outstanding uptime of 99.9% even in the face of network disruptions.
- Exhibited outstanding problem-solving capabilities and robust debugging skills, facilitating the rapid resolution of intricate technical challenges and mostly boosting overall team productivity.
- Developed and established models that encapsulate the application's data architecture. Utilized migrations for the systematic management of database schema modifications. Employed serializers to transform model instances and query sets into JSON format.
- Used built-in authentication methods like Token Authentication, Session Authentication, or JWT (JSON Web Tokens).
- Ensured all API responses are consistent, using standard formats like JSON, with appropriate HTTP status codes.
- Used DRF's custom exception handler to catch errors and format the response accordingly.
- Holds comprehensive knowledge of distributed messaging systems, especially Apache Kafka, which enables smooth communication within Microservices architectures and ensures high availability.
- Led a recent initiative aimed at refining data processing pipelines, achieving a notable 25% boost in processing speed for essential data workflow, thereby greatly enhancing operational performance.

Work Experience

Quartic.ai, Pune: April 2021 to November 2024
Software Development Engineer II

Key Result Areas:

- Architected and deployed sophisticated multi-tier edge resiliency solutions that guarantee service availability.
- Crafted and refined Kubernetes YAML configurations to minimize configuration errors, thereby enhancing deployment efficiency and reducing operational overhead.
- Implemented Apache Kafka for distributed messaging, ensuring robust communication channels within Microservices architectures.
- Streamlined multi-environment deployments through the use of Docker, enhancing scalability and operational efficiency across various platforms.
- Developed and maintained comprehensive documentation for software solutions, ensuring clarity and ease of understanding for future reference and onboarding of new team members.
- Collaborated with product management to define project scope and requirements, translating business needs into technical specifications & guided development efforts.

Soft Skills

- Analytical
- Collaborator
- Communicator
- Decisive
- Critical-Thinker
- Team Leadership

Education

2019: Bachelor of Engineering in Computer Engineering from Sinhgad Institute of Technology, Pune, Maharashtra

2016: Diploma in Computer Engineering from Dr. D.Y. Patil Polytechnic, Pune, Maharashtra

Personal Details

Github: github.com/TusharAthare

Medium: medium.com/@tusharathare18

Date of Birth: 18th May 1996

Languages: English, Hindi & Marathi

Address: Pune, 411045, India

Key Accomplishments:

- Optimized Kubernetes configurations, leading to a 20% reduction in deployment errors and primarily improving the overall efficiency of the deployment process.
- Enhanced security measures by configuring Kafka, which resulted in a 30% reduction in potential security risks associated with data communication.
- Spearheaded the development of Spark applications that improved data processing speeds by 25%, thereby enhancing the performance of critical data workflow.
- Achieved a 15% increase in data analysis throughput by leveraging advanced data processing libraries, which facilitated more informed decision-making processes.

Mancorp Innovations, Pune: August 2019 to April 2021
MTS Engineer

Key Result Areas:

- Collaborated with cross-functional teams to ensure seamless integration of front-end and back-end components, enhancing the overall user experience and functionality.
- Conducted thorough testing and debugging of applications to ensure high-quality deliverables, thereby maintaining a strong focus on user satisfaction.
- Engaged in continuous learning and adaptation of new technologies to stay ahead in the rapidly evolving software development landscape.
- Provided technical support and guidance to junior engineers, fostering a collaborative and knowledge-sharing environment within the team.
- Participated in code reviews and contributed to the establishment of best practices for software development, ensuring adherence to industry standards.
- Engaged in performance tuning of web applications, identifying bottlenecks and implementing solutions that improved response times and overall user satisfaction.

Key Accomplishments:

- Successfully launched the SUPACE application, which improved case management efficiency by 30%, enhancing the operational capabilities of the judiciary system.
- Developed reusable APIs that contributed to a 20% increase in application performance and maintainability, mainly benefiting the development lifecycle.
- Reduced disruptions during system updates by 25% through the implementation of effective change control practices, ensuring minimal downtime.

Projects

GraphQL API Conversion

- Engineered a wrapper around the Django framework to automatically convert models into GraphQL APIs based on developer-defined schemas, streamlining development and reducing front-end and back-end dependencies.

SUPACE - Judiciary Application

- Designed and implemented a web-based application for the judiciary system, enhancing process efficiency by 30%.

Websites Development

- Developed two fully operational websites during an internship: Kohinoor Furniture and Dream Home Developers.
- Collaborated with design and back-end teams to ensure seamless functionality and optimize the performance of both sites.

Online Health Care Hub (OHCH)

- Designed and developed a platform to enhance communication between patients and doctors, enabling online appointments and discussions through posts.
- Created an intuitive interface for patients and administrators to access medical records and track critical health statistics.

Bankruptcy Prediction Using Neural Networks

- Developed a bankruptcy prediction model leveraging neural networks in Python.
- Utilized frameworks such as Caffe and CuDNN for high-performance processing, achieving advanced machine learning outcomes.
- Applied cutting-edge Machine Learning techniques to enhance the accuracy of financial insolvency predictions.