GAURAV HOSKOTE

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SUMMARY

Software Engineer with 2+ years of software design and development experience in Python and Java RESTful Web Services, skilled in designing and building scalable, resilient, and performant distributed systems. Strong competencies in data structures, algorithms, and OOPs. Collaborative team player with experience in agile development methodologies, Test Driven Development (TDD), and CI/CD. Excellent communication, problem-solving, and analytical skills.

EDUCATION

Arizona State University **Aug 2022 - May 2024**
Master of Science (MS) in Computer Science, *GPA: 3.7/4.00*

Pune Institute of Computer Technology (PICT), India **Jul 2015 - Oct 2019**
Bachelor of Engineering (BE) in Electronics and Telecommunications, *CGPA: 7.75/10.00*

SKILLS

- **Programming Languages:** Java, Python, C++, JavaScript, MATLAB, Linux Commands.
- **Databases/Storage Systems:** MySQL, Postgres, Spark, Elastic DB, DynamoDB, Foxtrot, InfluxDB, Grafanna, Kafka, Hadoop, Redis.
- **DevOps Technologies and Tools:** Git, Jenkins, Maven, Docker, Kubernetes, RabbitMQ, Hibernate.
- **Libraries/Frameworks and Tools:** Spring Boot, Dropwizard, Flask, Django, Postman, React, Postman.
- **Relevant Coursework:** Machine Learning, Data Mining, Knowledge Representation, Data Processing, Spatial Data Science.
- **Extras**: Conducted workshops on Data Structures and Algorithms, Deep Learning Specialization, Member of the algorithm club.

PROFESSIONAL EXPERIENCE

Seidman Research Institute **Mar2023 - Present**
Programming Technician
- Currently working on the Job Growth Project which conducts research on data tools that allow users to rank and evaluate current and past economic performance for states and metropolitan statistical areas (MSAs).
- Techstack used: Python, Pandas, AWS RDS.

Phonepe Pvt Ltd **Feb 2020 - Aug 2021**
Member of Technical Staff
- Implemented a system to track transaction failures, detect anomalies, and alert the team on low success rates for specific service providers, preventing losses exceeding 30 lakh rupees.
- Developed and implemented Reconciliation systems utilising SFTP and REST API calls for data exchange and reconciliation with partner merchants. Led the design and development of Reconciliation systems for prominent service providers, such as Visa Cybersource, Airtel, and Billdesk, generating monthly revenue of over a million dollars for each provider.
- Developed highly functional product service APIs for the credit card category that streamlined the Operations Team's repetitive tasks, resulting in significant improvements in the average response time for each ticket raised.
- Demonstrated strong leadership as the Product Owner for Credit Card, successfully managing a team of four to ensure the product's seamless operation. Proactively implemented various enhancements from a security standpoint, resulting in an impressive success rate improvement of over 20% for transactions.
- Led engineering excellence initiatives, resolving 20+ system issues and delivering notable improvements. Ranked 4th out of 31 teams in the company-wide hackathon, showcasing exceptional skills. Designed backend for an NLP feature integrated into the application, catering to unique needs of visually impaired users.
- Conducted over 15 technical interviews and hired new talent to join the company. Link of Project Details.
- Techstack used: Python, Java (Dropwizard), Grafana dashboards, Foxtrot Query Language, MySQL DB, Influx DB.

ADDITIONAL EXPERIENCE

Image Captioning Service - *Python, Keras, TensorFlow, PyTorch, Heroku* **Nov 2022**
- Orchestrated and implemented an image captioning system using the encoder-decoder architecture with ResNet50 and Xception models, trained on the Flickr8k dataset.
- Conducted performance evaluation of the models using Bleu scores, with the Xception model outperforming the ResNet50 and generating coherent captions.
- Deployed the models on Heroku to provide an accessible user interface for users to test the image captioning system.

Geospatial Operations Console - *JavaScript, Flask, Python, Scala, Apache Sedona, DeckGL* **Dec 2022**
- Built a user-friendly web app that enables users to perform geospatial operations on trajectory datasets.
- Utilised DeckGL for rich trajectory visualisations on the front end providing a seamless user experience.
- The backend uses Apache Sedona to perform geospatial operations on the data efficiently.

Auto Scalable Image Recognition service using AWS - *Flask, Python, Boto3, AWS, EC2, S3, SQS, Lambda, DynamoDB* **Mar 2022**
- Built an elastic application that can automatically scale out on-demand cost-effectively by using the IaaS and PaaS Cloud.
- Achieved a benchmark of successfully processing 100 concurrent requests in 60 sec and creating up to 20 instances on the fly.
- Enhanced the application to process real-time video using AWS lambda and an edge device that stored results in DynamoDB.
- The new system was more efficient and was able to create 600 invocations in 300 seconds with an accuracy of 87%.