Rishabh Garg

EMAIL: garg.rishabh22@gmail.com | PHONE: +1 (512) 903-3980 | Seattle, WA

EXPERIENCE

Software Development Engineer II, **Amazon Web Services (AWS)**, Seattle

MAR 2024 - PRESENT
- Worked on *AWS Bedrock* to build the evaluation platform to benchmark the performance of large language models (LLMs) on various tasks.
- Designed and implemented a service to evaluate GenAI agents on AWS, including designing new metrics with scientific evaluations.
- Re-architected the service to reduce time for onboarding new models by 90% and created a hands-off workflow.

AUG 2021 - FEB 2024
- Led the end-to-end design and implementation of a new service in EC2 for analytics of large scale traffic flow data.
- Implementated both the control plane and dataplane for the service in native AWS on serverless architecture.
- Created RESTful APIs, a data ingestion service using AWS Lambda, Step Functions, and DynamoDB, and data warehousing to AWS Redshift and S3. This led to a successful preview with 30+ customers.
- Improved the operational posture by identifying optimizations, reducing monthly infrastructure spend by 30%, and lowering operational issues by 15%.

Graduate Research Assistant, **The University of Texas at Austin**

JAN 2020 - MAY 2021
- Research, including designing and running experiments in Pytorch, on multi-model audio-visual deep learning from videos (Advisor: Prof. Kristen Grauman).
- Resulted in state-of-the-art performance for obtaining spatial audio from regular audio by extracting contextual clues present in videos, and publications in BMVC 2021 and IJCV 2023.

Software Engineer Intern, **Goldman Sachs**, Bengaluru

MAY 2018 - JUN 2018
- Developed a unified search platform using Elasticsearch, indexing the database of all suspicious activities detected to reduce manual search times by >70%.
- Created the webapp back-end using Spring, on the front-end UI using React, and added features to allow analysis by saving and exporting results to MongoDB.

EDUCATION

2019 - 2021 Master of Science in COMPUTER SCIENCE, **The University of Texas at Austin | GPA**: 4.0/4.0
THESIS: Multi-task learning for binaural audio generation from video (Adv: Kristen Grauman)

2015 - 2019 B.Tech (Honors) in COMPUTER SCIENCE AND ENGINEERING, **IIIT-Delhi**
CGPA: 9.40/10 | Graduated with Honors for commendable academic performance

SKILLS

Programming : Java, Python, Scala, JavaScript, C++, C
Frameworks and Tools: AWS Technologies, React/Redux, PyTorch, SQL, MongoDB, OpenCV, Tensorflow

PUBLICATIONS

- **R. Garg**, R. Gao, K. Grauman "Visually-Guided Audio Spatialization in Video with Geometry-Aware Multi-task Learning". International Journal of Computer Vision (IJCV), 2023 (pdf)
- **R. Garg**, R. Gao, K. Grauman "Geometry-aware multi-task learning for binaural audio generation from video". British Machine Vision Conference (BMVC) 2021 **[Best Paper Award Runner-Up]** (project page)
- **R. Garg**, Y. Baweja, S. Ghosh, M. Vatsa, R. Singh, N. Ratha; "Heterogeneity Aware Deep Embedding for Mobile Periocular Recognition". IEEE International Conference on Biometrics: Theory, Applications, and Systems (BTAS) 2018 (pdf)