NIHAR S. JOSHI

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EMPLOYMENT

Software Engineer II **EagleView Technologies** **Aug 2019 – Jun 2021**

- Architected and implemented an event-driven pipeline solution for EagleView's Assess platform to reduce cloud costs by 60%.
- Coordinated with teams across USA, India and the Philippines to design a 1-year product roadmap, streamline the SDLC and identify KPIs.
- Mentored 3 SWE interns under the Buddy Program to increase code coverage of all modules from 57% to 87%.
- Formulated the specification for seamless CI/CD to ensure high concurrency, scalability and 5-nines uptime of multiple Anomaly Detection models.
- Engineered a multithreaded image tiling algorithm in Python to drastically reduce image processing time for OpenCV by 75%.
- Earned a promotion and the Above & Beyond Performance Award for driving EagleView Assess to production.

Software Developer **Graphene AI** **Jun 2018 – Jun 2019**

- Spearheaded a team of 7 SDEs to build the Inter-process Communication (IPC) module and cloud architecture for Graphene's Mavis AI.
- Engineered a workflow to perform Part-of-Speech (POS) Extraction, Named Entity Recognition (NER) and Aspect-based Sentiment Analysis (ABSA) of business-critical entities reducing manual extraction to 0%.
- Chosen as the Lead SWE to collaborate with Procter & Gamble by virtue of being the highest performing member of the AI Team.

EDUCATION

Chicago, IL **University of Illinois** **Aug 2021 – May 2023**

- Master of Science in Computer Science, 3.67 GPA

Mangalore, India **National Institute of Technology Karnataka** **Aug 2014 – May 2018**

- Bachelor of Technology in Information Technology

PROJECTS

- **Contextual Object Relationship Identification for Anomaly Detection & Image Enhancement (2018).** A Python Application that performs Scene Recognition and Anomaly Detection using Faster-RCNN to detect emergencies in live video feeds (fire in a house, accident on a road, etc.) with an accuracy of over 94%. Won **AMD's Best Student Project 2018 Award** and featured at the **2019 Conference on Computer Vision and Pattern Recognition**.
- **Log File Monitoring & Alert System (2021).** A Spark and Kafka based log file processor written in Scala that sends automated alerts to stakeholders based on log severity and frequency for cloud monitoring and troubleshooting. Also uses a Python Lambda function allow quick retrieval of classified logs in O(log n) time.

TECHNICAL SKILLS

Proficient: Python, Bash, AWS, Docker, Kubernetes, Apache Kafka, Jenkins, Argo CD, Redis, PostgreSQL, Flask, CI/CD, REST APIs, Linux/UNIX, Shell Scripting, Git, Unit/Integration Testing, Event-driven Programming, Scalable Cloud Architectures, DSA

Exposure: Scala, Go, Apache Hadoop, Apache Spark, gRPC, OpenCV, GraphQL, Google Cloud Platform, Microsoft Azure