**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% using Python, Go, Kafka and Kubernetes.
* Coordinated with global 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 allowing 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