

Sunil Kumar Madikanti

Senior Software Engineer

Building Highly Scalable Distributed Systems for more than 7 years now. Believes in Polymath thinking.

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WORK EXPERIENCE

Senior Software Engineer Comcast Corporation

02/2019 - Present

Philadelphia, PA

- Led engineering team of 7 engineers to build and deliver an MVP based on Cloud Native Microservices based Platform within 8 months.
- Designed, implemented & orchestrated migration of 20M accounts from an old DB to a new system without downtime.
- Worked as an Agile Coach following practices of Kanban whilst ensuring the Organization's Objectives and Key Results are followed.
- Developed a solution to improve the PR Review process with low downtime and improve Engineers' productivity.

Full Stack Developer Informational Systems, UMKC

01/2018 - 12/2018

Kansas City, MO

- Led a team to build a Stand-Alone Platform called 'Smart Spending System' from the Ideation Phase all the way to delivery and operations. This platform is a collection of easy-to-use tools and trackers that allow you to split bills with friends and family and to keep track of your money clearly.
- Received the 'Most Innovative Application Design' Award for the Design and Architecture of this Cloud Native Application Platform.

Software Engineer - Machine Learning Robotics R&D, MGIT

01/2013 - 05/2017

Hyderabad, India

- Managed the design and deployment of data pipelines, training and inference pipelines in support of Supervised Learning-based machine learning.
- Trained and deployed a Natural Language Processing-based model for Telugu Language and the entire ecosystem that can transcribe audio to text.
- Designed and developed analysis systems to extract information from large scale data.
- Solved SLAM issues by integrating individual components that could be obtained as Off-the-Shelf.
- Configured CICD for the deployment of Machine Learning models using Amazon Web Services.

EDUCATION

Master of Science in Computer Science University of Missouri - Kansas City

08/2017 - 12/2018

4.0

ACHIEVEMENTS

India's Fastest Blindfolded Rubik's Cube Solve (2014) 🏆

Received the Indian National Record for solving a Rubik's cube while blindfolded in less than 54 seconds. This time includes memorization of the scrambled cube and solving time. My best time to date is 30 seconds.

SKILLS

Problem Solving - Data Structures & Algorithms, Time/Space Complexities

System Design - Microservices, Event-Driven, Workflow-based & Serverless

Amazon Web Services - DevOps/BigData/Machine Learning Infrastructure

DevOps - Infrastructure as Code - HashiCorp Terraform/AWS CloudFormation, Containerization, CICD, ProdOps, 24/7 On-Call

Big Data - Spark, ETL, Data Lakes, Streams/Analytics, OnPrem-Cloud Migrations, Visualizations, Jupyter/SageMaker Notebooks

ML - Foundation, CNN, Train Deep Learning Models, TensorFlow 2, Rekognition, SageMaker, Inference Pipelines, ProdOps

Robotics - ROS, MatLab, Motion Control Systems, DOF Platforms, Multi-Rotors, Path Planning Semi-Autonomous Systems

Autonomous Vehicles - Neural Networks, Object Detection, Sensor Fusion, SLAM, LiDAR

CERTIFICATES

Amazon Web Services Specialty - Machine Learning (2020) 🏆

Amazon Web Services Professional - DevOps Engineer (2019) 🏆

Amazon Web Services Associate - Developer (2019) 🏆

PERSONAL PROJECTS

Rubik's Cube Solving Robot (2018)

- Python3, OpenCV, Semantic Segmentation, Raspberry Pi

Resurface your Kindle highlights (2018)

- AWS Serverless, SMS or Email Integration

Emotion Detection Using Facial Recognition (2018)

- KNN, Multi-layer Perceptrons, Convolutional Neural Networks

Crop Prediction System using Machine Learning (2017)

- Decision Tree Classifier, K-Nearest Neighbors

Semi-Autonomous Multi-rotor Quadcopter (2017)

- Obstacle Avoidance, Custom Path Planning, 'Follow Me' Mode

Hand-written Notes' Scanner using OCR Algorithm (2014)

- Segmentation, Classification and Recognition, Feature Extraction

INTERESTS

Physics

Art

Philosophy

Travel