Mayank Raj

Solutions Architect

I'm a software architect with extensive experience in not only building high performant products powered by AI/ML, Big Data etc, but also designing resilient and fault tolerant cloud infrastructure around it. I have architected products that can scale to handle 100x load within minutes and yet remain cost effective. I have also worked with big data and built a graph database engine to work with more than a billions of nodes and edges.

JavaScript │ Python │ AI │ NLP │ AWS │ Graph Database │ System Architecture│ Distributed Systems
Serverless Systems │ CI/CD │ Cloud Automation │ Tech Author │ Automated Drones

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JavaScript, NodeJS, Python

AI, ML, NLP, PyTorch, TensorFlow, Pandas, Keras, TensorFlow.js, MI5.js, WebVR, Ar.js, Three.js

AWS, GCP, EC2, ECS, S3, Lambda, RedShift, Kinesis, API Gateway, CloudFormation etc

GrayLog, Sentry, CloudWatch, X-Ray

RDS, Postgresql, RedShift, DynamoDB
Neo4j, AWS Neptune, DGraph

Docker, Git, Logstash, Linux

Cost effective, Secure and Reliable Infrastructure Design, Serverless Architecture
Reproducable Infrastructure - CloudFormation, SAM, CDK

Automated Drones, Ardupilot, PX4, Custom Keyboard, iOT
Core Contributor to Firefox
Authoring book titled "Hands on AI Projects" with O'Reilly

Cactus Communications
Mumbai, India │ Princeton, USA

Solutions Architect — May '18 - Present
- Report to the CTO
- Managed team that grew from 1 to 7. Overall grew from 1 to 36
- Worked on projects that acheived state-of-the-art scores in various applications of language detection and correction, NLP and Vision
- Designing and developing of production enviornment, monitoring and alerting systems, managing production AWS infrastructure and optimizing cost

Software developer — Jul '16 - Apr '18
- Developed innovative solutions and automated various process
- Built a monitoring and logging service along with its cloud infrastructure to process more than 9 million events per day and yet be elastic
- Built a service that allow users to communicate with anone else on the same page using web sockets. Scaled the service from 47 users to 2.7K in 36 minutes

Directi
Mumbai, India

Software Developer - Consultant — May '16 - Jul '16
- Designed and developed a full stack application to handle recruitments and track the candidate from the time they enter to the time they are hired
- Also handle walk-in candidates by generating their profiles on site
- Generate automated reports and email trigger

WorkAmp, AIESEC, Frapp.in, TCS, HamaraEvent...
Consultant

Education
Mumbai, India

Bachelor in Technology, Computer - NMIMS University — Jun '14 - May '18

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