Aditya Narayan

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EXPERIENCE

MICROSOFT | Software Engineer 2
Dec 2021 - Present | Bangalore, IN

- Designed and led the migration of Solution Center storefront metadata from Azure Storage to Microsoft PowerApps.
- Designed and implemented **query caching** over PowerApps APIs to circumvent API usage restrictions and prevent **cache stampedes**.
- Evangelized and led the adoption of **Infra-As-Code** within the team.
- Performed a **lift-and-shift** operation of Microsoft's PowerApps environment using a novel approach of mimicking PowerApps APIs.
- Developed an integration test framework for Solution Center.

AMAZON PRIME VIDEO | Software Engineer 2
Sept 2020 – Dec 2021 | Bangalore, IN

- Designed a high-throughput API using **Lambda architecture** to allow low-latency lookups over a materialized view of watch history data.
- Designed a **bulk-download API** over terabytes of PrimeVideo user watch history to cater to GPDR data portability requirements.
- Developed a real-time datastream processor to allow real-time monitoring of internal employee activity on team's services.
- Independently developed an internal code-review plugin to catch recurring human failures. Scaled it to serve **>50 teams** inside Amazon.
- Among the **top 15 Amazonians** world-wide across all time on Sage - Amazon's internal Stack Overflow.

AMAZON | Software Engineer 1
July 2018 – Sept 2020 | Gurgaon, IN

- Developed a data pipeline for generating variables for machine learning model from seller activity on SellerCentral.
- Developed the multi-factor credit card authentication experience for EU sellers on SellerCentral allowing Amazon to adhere to PSD2 regulations and charge recurring subscription fees.
- Eliminated statistically-irrelevant alarms to reduce the high-severity ticket count by **96%** within a quarter.
- Developed parameterized integration tests across 15 regions and handful of subscriptions to increase test coverage.

AMAZON | Intern
May 2017 - July 2017 | Gurgaon, IN

- Developed an account auditing infrastructure over **AWS DynamoDB** and **AWS Kinesis** for third-party sellers on SellerCentral.
- Implemented a daemon to periodically create AWS DynamoDB tables for time-series data to prevent performance degradation.

PROJECTS

SOFTWARE CARPENTRY | Project Maintainer
Aug 2016 - Apr 2017 | Kharagpur, IN

- Co-responsible for maintaining and upgrading the project AMY - web application used by this world-wide training organization to manage all their 1,000 workshops and 25,000 learners.
- Created a **RESTful API** using **Django Rest Framework** over PyData conference websites to vend out talks, participants and sponsors.
- Contributed over 80,000 lines of codes across **100+ commits**.

EDUCATION

IIT KHARAGPUR
Dual Degree in Electronics and Electrical Communication Eng.
July 2018 | Kharagpur, IN

AWARDS

Winner at App Development competition at INAE's 2nd Youth Conclave
Top 10 finalist at the Mercari India Hackathon 2017
National top 1 percentile in National Standard Examination in Physics

SKILLS

PROGRAMMING
3+ years:
Java • Python
1+ years:
Kotlin • C# • TypeScript
0+ years:
Bash

TECHNOLOGY
AWS Lambda • AWS EC2 • AWS SQS
AWS DynamoDB • AWS Kinesis • Redis
Azure Storage • Azure App Services
PowerApps

COURSEWORK

UNDERGRADUATE
Data Structures and Algorithms
Object Oriented System Design
Cryptography
Data Analytics
Digital Image Processing
Machine Intelligence and Expert Systems
Image Pattern Recognition
Operations Research

SOCIETIES

Indian National Academy of Engineering
PyData
Software Carpentry
Technology Robotix Society