Aditya Narayan

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EXPERIENCE

AMAZON PRIME VIDEO | Software Engineer 2
Sept 2020 – Present | Gurgaon, IN
- Designed a high-throughput API using **Lambda architecture** to allow low-latency lookups over a materialized view of transactional data.
- Developed a real-time datastream processor to allow real-time monitoring of internal employee activity on team's services.
- Developed an internal plugin to catch recurring human failures during code reviews. Scaled it to serve **>50 teams** inside Amazon.

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 while reducing the failure rate at the same time using intelligent retry strategies.
- Reduced the time taken to iterate on a code change locally from 15 minutes to **5 seconds** saving countless developer hours.

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 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.
- Added an import wizard to AMY to fetch resources from PyData API.
- Contributed over 80,000 lines of codes across **100+ commits**.

RESEARCH

AUTONOMOUS GROUND VEHICLE RESEARCH GROUP
Aug 2013 – May 2014 | Kharagpur, IN
- Worked with **Prof Debashish Chakravarty** to design a fast-response motion planner using A* graph search algorithm, improving the autonomous vehicle's response time from 30 FPS to 100+ FPS.

EDUCATION

IIT KHARAGPUR
Bachelor of Technology in Electronics and Electrical Communication Engineering
Apr 2018 | Kharagpur, IN
Cum. GPA: 8.04/ 10

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
2+ years:
Java • Python
1+ years:
JavaScript • Ruby
0+ years:
Kotlin

TECHNOLOGY
AWS Lambda • AWS EC2
AWS DynamoDB
AWS SQS • AWS Kinesis
Git/Github • Linux • ROS

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