

# 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 Power Apps.
- Designed and implemented **query caching** over Power Apps APIs to circumvent API usage restrictions and prevent **cache stampedes**.
- Performed a **lift-and-shift** operation of Power Apps environment by re-implementing Power Apps query execution engine in-memory.
- Evangelized and led the adoption of **Infra-As-Code** within the team. Acted as a consultant across sister teams in the organization to help them migrate their infrastructure from adhoc scripts to code.
- Co-maintaining **Sharpliner** - an open-source project that allows defining Azure DevOps pipelines in code.

### 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 GDPR data portability requirements.
- Developed a real-time data stream processor to allow real-time monitoring of employee activity on internal portals.
- 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.

### 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.

## 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

2+ years:

Kotlin • C# • TypeScript

### 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