

# Arpan Kumar Mishra

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## EDUCATION

### MIT MANIPAL

B.TECH IN COMPUTER SCIENCE AND  
ENGINEERING

2013-2017 | Manipal, India

CUM. GPA: 9.12

## LINKS

Github:// arpan14

LinkedIn:// arpan1311

Facebook:// arpan1311

Quora:// Arpan-Mishra-5

## COURSEWORK

### GRADUATE

Artificial Intelligence + Practicum

Advanced Graph Theory

Cryptography and Network Security

Parallel Architecture

Operating Systems

## SKILLS

### PROGRAMMING

Java • C++ • C • Python • Linux

• Shell •  $\LaTeX$

### FRAMEWORKS

• Spring

• Flask

## EXPERIENCE

### AMAZON | SOFTWARE DEVELOPMENT ENGINEER II

July 2017 – Current (3 years) | Hyderabad, India

- Part of the Amazon Home Services (AHS) Organization.
- Implemented multiple CX improvements for unifying the buying experience of a service with a product.
- Designed a generic work-flow to carry out any seller transactions and subsequent seller inventory propagation asynchronously.
- Designed a solution to prevent the over-booking and under-booking of temporal inventory.

### AMAZON | SOFTWARE DEVELOPMENT ENGINEER INTERN

January 2017 – June 2017 | Hyderabad, India

- Part of the Amazon Home Services (AHS) Organization.

### MICROSOFT | SOFTWARE ENGINEER INTERN

May 2016 – July 2016 | Hyderabad, India

- Part of Finance India and Professional Services (FIPS) Organization.

## PROJECTS

### ASYNCHRONOUS INGESTION OF TEMPORAL INVENTORY UPDATES

- Deprecating existing synchronous call patterns and implementing a generic solution using multiple AWS technologies to asynchronously keep two data-stores in sync. Robust failure retry mechanisms was also implemented to prevent any manual intervention.

### SOLVING THE TEMPORAL INVENTORY ENCUMBRANCE CONUNDRUM AT THE TIME OF PLACING ORDERS

- Implementing a low latency algorithm to run during Amazon's checkout process to prevent any over-bookings of customer orders. While implementing, additional care had to be taken to prevent any under-booking of customer orders.

## PUBLICATIONS

### I-PACT 2017 IEEE INTERNATIONAL CONFERENCE

- Arpan Kumar Mishra, P C Siddalingaswamy. Analysis of Tree based Search Techniques for Solving 8-Puzzle Problem. In Proceedings of the IEEE International Conference on Innovations in Power and Advanced Computing Technologies.

## AWARDS

2016 top 1/222

2016 Finalist

2015 top 1/112 teams

2017 top 1/700

2016 Finalist

Microsoft Data Science Challenge

Microsoft Imagine Cup

Microsoft Code.Fun.Do Campus Hackathon

Unisys Cloud 20/20 Technical Project Contest

Unisys Cloud 20/20 Technical Project Contest