

# ARNAB RAY

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## EXPERIENCE

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### Udaan

*Software Engineer L4*

Bangalore  
Feb 2020 - Present

- Built the procurement system to place purchase order for procuring goods. Involved in conception, design, development and deployment of it.
- Built Just-In-Time (JIT) procurement workflow from scratch for three working models, integrated with our invoicing, fulfilment and supply chain. Also integrated this workflow with third-party vendors like Unicommerce, Capillary Tech and Vinculum.
- Built vendor selection platform with a peak qps of 500 with 50ms of p99 latency.
- Implemented state machine as a library with persistence support.
- Implemented a distributed lock library based on cosmosDB.
- Reduced cost for the microservices by optimising DB queries.
- Revamped product catalog system and refactored procurement to reduce IRN-GRN mismatch.
- Moved the monolith “first-party service” to micro-services.
- Improved coding practices by introducing eliminating blocking codes, incorporated code linters, adding unit tests.

### Flipkart Internet Pvt. Ltd.

*Software Engineer II*

Bangalore  
Mar 2016 - Feb 2020

- Created the engine to support feasibility check for all post order modifications by the customer like changing payment mode, changing address, rescheduling delivery slot or delivery date. It had a qps of 500 reads and 200 writes.
- Implemented fulfilment of multi-part shipment helping to scale furniture vertical. Sticky SLA and easy replacements were facilitated by the feature.
- Implemented fulfilment of grocery handling slotted delivery and lot managed inventory. Extremely critical for scaling up repeat customers.
- Designed and built the capability of multi-location of sellers (third party) and pre-orders for slotted delivery. This helped us to onboard sellers like Decathlon and Big Bazar on to our platform.
- Scaled fulfilment from 100 qps to 300 qps by sharding DB and optimising code.
- Built the environment for testing new features using production load, supporting both read and write APIs.
- Built support for flash sales for appliances.

### EMC Corporation

*Sr. Software Engineer*

Bangalore  
Aug 2013 - Mar 2016

- Developed installer for Unisphere for VMAX, this was a host management software, this had variant for Chinese market and a cloud platform.
- Created and maintained build scripts for the builds.

## EDUCATION

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### Indian Institute of Technology Guwahati

M.Tech Computer Science *GPA: 8.78*

2011 - 2013

### West Bengal University of Technology

B.Tech Computer Science *GPA: 8.87*

2007 - 2011

## SKILLS

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Programming Languages:	Java, Kotlin, Ruby, C, Typescript, ReactJS, Python, Shell Script, Perl, R
Databases:	MySQL, Postgres, Azure SQL Server, Redis, MongoDB, Azure CosmosDB
Framework:	Dropwizard, Padrino
ORM:	JDBI, Hibernate, ActiveRecord.

## PROJECTS

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### Finite State Machine

An in-memory finite state machine

<https://github.com/arnab-ray/finite-state-machine>