

# Upendra Singh

Software Developer

B.Tech - Indian Institute of Technology, Jodhpur

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## WORK EXPERIENCE

### Product Engineer

STEP - The Hindu Group 🔗

06/2017 – 03/2018

Chennai, TN

#### Tasks

- Collaborated with product management, design, and support teams to ensure quality in all phases of app development.
- Implemented caching and multi-threading to support live test from app. Implemented Firebase for real-time database, FCM Push Notification, Crashalytics and SonarLint for static code analysis.
- Used different libraries like glide (image loading), exoplayer (videos), retrofit (networking), espresso (testing), GSON (json parsing).

### Software Engineer (Intern)

Enormous Technologies Pvt. Ltd.

#### Tasks

- Worked on temp hawk, an android application which is used to manage temperature of cold rooms of restaurants. Designed custom REST APIs for the application and handled database related tasks for development

### Software Developer (Intern)

BlickBee

#### Tasks

- Worked as a founding member of the company. Designed and developed a complete android app along with backend for an online grocery store.

### Android Developer (Intern)

Fitso, Jogo Technologies Pvt. Ltd. 🔗

## EDUCATION

### B.Tech - Computer Science Engineering

Indian Institute of Technology, Jodhpur

2013 – 2017

Jodhpur, Raj.

### CBSE - 12th

Children Sen. Sec. School, Kota

2012

Kota, Raj.

### CBSE - 10th

The Rajasthan School, Kotputli

2010

Kotputli, Raj.

## TECHNICAL SKILLS

Node JS

Express JS

MongoDB

PostgreSQL

Docker

Kubernetes

React

## SELF INITIATIVES

### Blog-Comment Prototype 🔗

- Developed a micro service architecture based Blog post application.
- Implemented underlying multiple services to handle Blog Posts, comments & comment moderation.
- The client interface was developed using React.
- Implemented async communication between services to ensure modularity of different services.
- Implemented Event Bus architecture to ensure eventual consistency and availability of the application and avoid single point of failure.
- Deployed the project with docker and kubernetes

### E-Commerce Backend 🔗

- Designed and implemented e-commerce backend REST APIs using node.js, express.js, Mongoose (MongoDB ODM)
- Implemented user authorization using JSON Web Token.
- Implemented password hashing using bcrypt (hash and salt) for better encryption

### Order Service 🔗

- Implemented CRUD operations in order service.
- Designed a service to handle concurrency during order placement using transactions in postgresQL.

## POSITION OF RESPONSIBILITIES

Assistant Coordinator, Android App Development Workshop IGNUS, Annual Tech Fest, IIT Jodhpur

Assistant Head, Public Relation Team, VARCHAS Annual Sports Fest, IIT Jodhpur

Student Guide(Counselling Service), Acted as a student guide, mentored 20 counselee students.

## ACHIEVEMENTS

Runner-up in Microsoft Hackathon'17 Code.fun.do at IIT Jodhpur.

Acquired third place in national level football tournament Sportech organized by IIT Delhi.

Acquired All India Rank (AIR) 2831 in JEE ADVANCE- 2013

Awarded certificate of Merit in Mathematics Olympiad 2010.