

# Onkar Shedge

<http://onkars.me/>

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## EDUCATION

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- **Pune Institute of Computer Technology** Pune, India  
*Bachelor of Computer Engineering; GPA: 3.66 (9.15/10.0)* *Aug. 2012 – July. 2016*

## EXPERIENCE

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- **ThoughtWorks** Pune, India  
*Application Developer* *August 2016 - Present*
  - **Pharmaceuticals application:** This application used historic data about drugs and prescriptions to help analysts make decisions how a drug would perform in market.
    - As the application was mostly read only and data was monthly added, deployed a *Varnish* server to act as caching proxy server to improve performance of application. requests time was around 6s reduced to milliseconds
    - Database migration tool was not in place, used flyway.
    - Looked into end to end life cycle i.e devops also.
    - D3.js charts visualization
    - AngularJS 1.4, SQL Server, Kubernetes, helm, circleCI.
  - **ETL Application:** Analysts used Veeva data for visualizations in Tableau, other tools. The goal of the application was to get the data(around 250Gb) from Salesforce and dump it into AWS Redshift via S3 using *COPY* command
    - Created a Kubernetes job from within the cluster, using RBAC.
    - Used Celery to speed up the downloading data from Salesforce.
    - Also requests were first synchronous, I implemented asynchronous using *asyncio*.
    - Gave a office wide lunch and learn on Authentication and authorization in k8s, to share and extend my knowledge on k8s, demoed on AWS using kops to deploy.
    - Python3, Flask, React, Redux, K8s, helm, circleCI.
  - **Bumblebee Chatbot (Internal Application):** Created a chatbot as a platform so that other teams can develop their features into the bot. Integrated with chat.google
    - Initially started out with NLTK package, but accuracy was not much, so moved to API.ai now known as Dialogflow
    - Used AWS lambda for Serverless application.
    - Got familiar with AWS services like DynamoDB, IAM roles and JWT tokens, OAuth2.
    - Also created a personal chatbot integrated with google's personal assistant to book meeting rooms and find when a person is free/busy. Was closely monitoring events in Google I/O 2017 for updates.
    - Golang 1.8, CircleCI
  - **Bank Application:** Worked with Oracle ODI tool, ETL tool. Java Services. Oracle SQL Server.
- **Pune Institute of Computer Technology** Pune, India  
*Student* *Aug 2012 - May 2016*
  - **Distributed Off-heap JVM Cache:** Interned at eQ Technologic. To store large data, replicated across cluster, in off-heap RAM inspired by HDFS architecture.
  - **Pradnya Competition:** A Django web application, so participants can solve problems by submitting code.
  - **Blog:** In 2nd year wrote a blog on NASM(x86 assembly language programming) with my colleague.  
<http://nasmcodeasy.blogspot.in>

## ACHIEVEMENTS

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- **Google Summer of Code 2016 - Apache Zeppelin:** Notebooks are stored in the local file-system or cloud. The goal of the project was to share these notebooks with other users via p2p systems like IPFS, Bittorrent  
<https://onkarshedge.github.io/gsoc2016/>
- **ACM ICPC:** Participated in ACM ICPC regionals 2015 IIT Kharagpur, secured 71st rank, only team from PICT at that regionals.

## PROGRAMMING SKILLS

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- **Languages:** Python, JavaScript, Golang, Java, C/C++, SQL