Onkar Shedge

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EDUCATION

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

OBJECTIVE

In my professional experience, I have worked in an environment which follows Agile, Extreme Programming practices. I have learnt to write clean code, TDD; worked on backend, DevOps. I am interested in Distributed systems, DDD. In an effort to enhance my knowledge and contribute to organization's growth, I'd like to bring these skills to the mentioned position.

EXPERIENCE

- **ThoughtWorks** — Pune, India
  Application Developer — *August 2016 - November 2020*

  - **Capital Management Finance Application**: Tool to capture and maintain holdings for multiple capital assets for partners. Provide an updated view to the user along with picture perfect reports and even ad-hoc analysis. Very critical application since this is the only source of truth for a partner's holding.
    I worked on the following technologies in the project :
    - Backend : Spring Boot 2.1, Java 11, Mysql 8, helm, k8s, GoCD pipelines
    - Monitoring & Logging: I build dashboards, alerts in Splunk. Prometheus metric collection, dashboard in Grafana.
    - Data Migration: Data was migrated from 1st version legacy application which used Oracle DB using Sqlines, Pentaho and tested using Querysurge.
    - ETL : I worked on Pentaho for ETL of data from application to reports, run using Kubertenes Jobs
    - Spring-Batch for batch transactions.
    - Frontend: I worked to some extent. react 16(functional components), redux, ag-grid,

  - **Retail pricing solution**: Price recommendation system for products placed on the shelf. The application comprised of human intelligence and Data Science. Apart from writing Scala API's, I also worked on Data Engineering to some extent.
    - Aiflow as workflow-manager/orchestrator
    - Spark Jobs deployed on GCP DataProc cluster.
    - Scala 2.12, Play Framework, Postgres, Kubernetes.

  - **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.
    - 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
    - Tool used: API.ai now known as Dialogflow.
    - Got familiar with AWS services like AWS lambda, DynamoDB, IAM roles and JWT tokens, Oauth2.
    - Golang 1.8, CircleCI

- **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 progamming) with my colleague.
    http://nasmcodeasy.blogspot.in

Achievements

- **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 wiht 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

- **Languages**: Java, Python, Scala, JavaScript