Arpit Bhayani
Technical Architect

An avid programmer, passionate about engineering, design and building products that affect millions.

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WORK EXPERIENCE

Technical Architect
Unacademy
02/2018 – Present   *Bangalore, India*

- Lead the Search and Content Discovery Team
- Designed and developed Search and Content Discovery platform
- Introduced and developed Search Query Auto Completion
- Bettered the result relevance and in turn improved CTR by 40.2%
- Developed a service that identifies the intent from a search query
- Designed algorithm for identifying Trending searches on platform
- Designed Search Query Logging and Visualization system
- Tech: Python, Golang, Elasticsearch, NLP, ML

Software Development Engineer II
Amazon
12/2016 – 02/2018   *Hyderabad, India*

- Developed a service that puts infrequently accessed data in cold tier
- Created streamlined and seamless access for Hot and Cold Data
- Bootstrapped a generic data pipeline platform for Amazon Retail
- Developed a platform that enables auto-healing of services in despair
- Tech: Java, DynamoDB, S3, EMR

Sr. Software Engineer
Practo
04/2016 – 11/2016   *Bangalore, India*

- Developed the tool that enables incremental release of products
- Built the product that identifies anomalies in real time
- Built the core database service that ensures high horizontal scalability and high availability
- Tech: Python, Flask, Java, MySQL, MongoDB, Boto3

Software Engineer
Practo
09/2015 – 03/2016   *Bangalore, India*

- Honoured with Star Employee Award
- Built the tool used for dummy data population across products
- Built the tool used for managing and provisioning staging environment, instances and infrastructure
- Zero downtime and Zero impact migration of Practo's Staging Infrastructure to a different AWS Region
- Tech: Puppet, Vagrant, Python, Flask, Boto3, Semantic UI

Software Associate
Saba Softwares India Pvt. Ltd.
07/2012 – 07/2013   *Pune, India*

- Built Offline reviews feature in Saba's SPC Product
- Implemented Language Check feature for Saba's Internal Tool
- Tech: Java, Apache FOP

SKILLS & COMPETENCIES

`NodeJS` `Python` `Golang` `Java` `Ansible`
`Puppet` `Kafka` `GraphQL` `MongoDB`
`MySQL` `Redis` `Design` `Semantic UI`
`Amazon Web Services`

PROJECTS

Tripod - Fast and Optimal In Memory Prefix Search
- Optimal and Predictable memory allocation for operations
- Uses Trie as data structure and written in Golang

FlaskSR - Enable streaming of partial HTTP Responses
- Enables prioritized rendering of HTTP components in Flask
- Betters First Time To Paint and thus the UX for flask based services

Facebook Messenger Bot for Online Shopping
- Bot enables purchasing any product directly through the messenger
- It answers any fashion related questions and queries

Aligning Cricket Match Reports to Commentaries
- Identifies important event from a Match Report
- Maps these events to corresponding balls in commentaries

Detection of Memory Leaks and Uninitialized Variables
- Uses dynamic analysis and binary instrumentation to identify flaws
- More efficient in finding runtime bugs than any Static Analysis Tool

WikiSe - A search engine build on top of Wikipedia Dump
- Bootstrapped a generic TF-IDF based search engine
- Tries to directly answer the query that could be, using Infobox data

EDUCATION

M.Tech in Computer Science
IIIT, Hyderabad (9.02/10)
07/2013 – 05/2015

B. Tech in Information Technology
College of Engineering, Pune (8.56/10)
07/2008 – 06/2012

INTERESTS

`Sketching` `Gaming` `Physics` `Astronomy`
`Mathematics` `Blogging`