

# Vaibhav J Desai

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## EDUCATION

### Master of Science (MS), Computer Science

Viterbi School of Engineering, University of Southern California  
Courses: Design of Algorithm, Foundations of AI.

Fall 2017- Spring 2019

CGPA: 4/4

### Bachelor of Science (BS), Computer Science

University Visvesvaraya College of Engineering (UVCE), India.

Fall 2012-2016

CGPA: 80% (Top 5% of the class)

Courses: Machine Learning, Object Oriented Design, Database Management Systems, Analysis of Algorithm and Data Structures.

## TECHNICAL SKILLS

**Programming:** Python, Mongo DB, Java, Couch Base, SQL, JSON, HTML, Neo4j, PHP.

**Frameworks:** Django, Spring boot, Android, Slim, RESTful APIs.

**Others:** Agile Methodologies, Jenkins, CICD, Splunk, Getling, Linux, Windows, Mac, RabbitMQ, AWS, GIT, TFS, JUnit testing.

## WORK EXPERIENCE

### Associate Software Developer, *TESCO, Bangalore, India*

July 2016 - July 2017

- Designed, developed and deployed reservation APIs with a **99.97%** uptime and 100 ms response time (100 TPS) in JAVA.
- Developed **automated test suites** for faster integration and regression testing of APIs.
- Optimized order/delivery models using **fractional Knapsack algorithm**. Fined tuned with user feedback.
- Architected the logging system to capture critical data for monitoring purposes.
- Created Splunk monitoring dashboards to significantly reduce manual monitoring of prod systems.

### Software Developer Intern, *Innohabit Technologies, Bangalore, India*

Jan 2015 - Jan 2016

- Launched** a product for personalized advertising campaigns, funded by Innohabit Technologies.
- Designed and developed an **Android** app that broadcasts contextual offers using beacons, GPS and wifi stack.
- Developed and architected the database schema and **restful APIs** for entire platform.
- Implemented **JIRA Synchronization** feature, which allows migration and integration from **JIRA** to **Woises** (PM tool).

### Software Developer Intern, *Teritree Technologies, Bangalore, India*

May 2014 - Aug 2014

- Designed and developed an automated mailing engine using **Django** to send/track Ad campaigns and compute the open stats.
- Wrote social media crawlers in **Python** to analyse the outreach of the product Ads through Facebook likes, comments, shares.

## PROJECTS

- Multi-source Keyword Extraction and Graph Construction with Privacy Preservation**
  - Used WordNet and DBpedia to perform **domain analysis** of a text and construct of context graph using Python and Neo4j.
  - Developed an algorithm to **detect threshold score** for which the summarized context is correct.
- Facebook Profile Similarity**
  - Wrote a crawler using to get various profile information such as place of birth, current city, likes and interests of a person.
  - Formulated a method to calculate the similarity score among the profiles based on the above fields.
- Organized several boot camp sessions and tech talks as a **Microsoft Student Partner** at UVCE.

## PUBLICATIONS

- "Multi-source Keyword Extraction and Graph Construction with Privacy Preservation"**, 5th International Conference on Information and Education Technology (ICIET) Tokyo Japan, Jan 2017.
- "SWCTE: Semantic Weighted Context Tagging Engine for Privacy Preserving Data Mining"**, 3rd IEEE International Conference on Data Science and Engineering (ICDSE) Cochin India, Aug 2016.