

# Sharvil Katariya

SOFTWARE DEVELOPER & ENGINEER · UNDERGRAD

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## Education

### International Institute of Information Technology (IIIT)

Hyderabad, India

B.TECH IN COMPUTER SCIENCE ENGINEERING

Jul. 2013 - PRESENT

- CGPA: 7.9
- Teaching Assistant: Software Engineering

### Delhi Private School

Dubai, UAE

SECONDARY SCHOOL | CBSE BOARD

May. 2006 - May, 2013

- Academic Excellence Award, on attaining a perfect 10 out of 10 CGPA for sophomore year(Grade 10).
- Blue Badge Award (Academic Excellence for 4 consecutive years)

## Experience

### VMware

Bengaluru

CLOUD SOLUTION ARCHITECT & SOFTWARE ENGINEERING INTERN

May. 2016 - July. 2016

- Worked on building a proximity based, cross-platform Smart TV solution, using web development architecture
- Architected an cloud-based solution as an extension to project's idea, for real-time analysis using Apache Spark Infrastructure.
- Chosen to work on Borathon(Annual Hackathon) winning project

### Connaizen

Delhi

MOBILE DEVELOPER

June 2015 - Aug 2015

- Creation of Net-banking based Android Application, along with customization to user's location and interest, with the help of Machine Learning.
- Realization of User Experience Design along with social site integration

### Indian School of Business(ISB), Hyderabad

Remote

DATA ANALYST INTERN

June 2015 - July 2015

- Worked on Data Segregation and to understand relationship between patent inventors network and the firms where they work at, with the help of clustering algorithms.

### Imagine Software Labs

Hyderabad

SOFTWARE ENGINEER

Dec. 2014 - Feb. 2015

- Build SAAS based web application, named Hellopsych, for online video consultation with doctors.
- Presented HelloPsych at 67th Annual National Conference of the Indian Psychiatric Society (ANCIPS 2015), Hyderabad
- Worked on asynchronous processing of tasks, with the help of celery, along with the development of an secure payment flow.
- Incharge of Project Deployment on Apache Infrastructure, based on Django Framework, with the help of gunicorn and nginx.

## Projects

### Action Recognition in Videos

CVIT Lab, IIIT

ADVISOR - DR. AVINASH SHARMA

Dec. 2016 - PRESENT

- The goal of this project is to assign action labels to video clips.
- Application of Graph Kernels for intuitive understanding of the learning process.

### Semantic Annotation - Wikipedia articles

SIEL Lab, IIIT

ADVISOR - DR. VASUDEV VERMA

Mar. 2016 - Apr. 2016

- The goal was to annotate a research paper, based on ACM classification tree and with an Wikipedia article that matches its contents most closely
- Application of different deep learning models & architecture models like DBOW(Distributed Bag of Words), DM(Distributed Memory).

### Temporal Prediction Models for Environmental Variables

LSI Lab, IIIT

ADVISOR - DR. AVINASH SHARMA, DR. SHAIK REHANA

Feb. 2016 - Feb. 2017

- Application of Machine Learning models, like Extreme Learning Models, RNN, etc. for time series prediction of stream temperature.

## Wikipedia Search Engine

SIEL Lab, IIIT

ADVISOR - DR. VASUDEV VERMA

Jan. 2016 - Feb. 2016

- Retrieve Wikipedia pages related to the query and order them according to relevance, along with the help of a 2-Tier Index

## Ultimate Tic Tac Toe Bot

IIIT

ADVISOR - PRAVEEN PARUCHURI

Jan. 2015 - Mar. 2015

- Designed a AI bot to play the Ultimate TicTacToe Game using MinMax Trees and AlphaBeta Pruning for optimal gameplay.
- Ranked 12th out of 100 teams in Intra-Class Bot Tournament.

## Carrom Game Application

SIEL Lab, IIIT

ADVISOR - PROF. ANOOP NAMBOODIRI

Jan. 2016 - Feb. 2016

- Created a 2D Carrom game using OpenGL, with designing the game's physics.

# Achievements

## First Place - IoT Hackathon

Dubai, UAE

DUBAI SMART GOVERNMENT

June 2015

- Secured First Place for Smart Waste Management System, an Internet of Things project, to help in Search and Rescue Mission in case of emergencies.

## Top 10 Finalist - Gitex Student Lab

Dubai

GITEX TECHNOLOGY WEEK

Oct. 2015

- Developed an IoT based smart waste management solution
- Showcased the solution to top executives of technological firms like Google MENA

## Finalist - Pioneer's Makerthon

Delhi

TATA AND TRYST

Feb. 2016

- Created an Android Application, named "Bounty Hunter", that seeks to provide a messaging platform, to get chores done for a bounty
- Top 12 Finalist - showcased the application at IIT Delhi.

## Winner - Game On Event

Hyderabad

FELICITY 2015

Feb. 2015

- Developed an interactive voice-based game

# Technical Skills

## LANGUAGES

**Familiar** Python, C, C++, Bash, Java, PHP, MIPS(Assembly), Scala, Matlab, Ruby, ARM

## FRAMEWORKS/TECHNOLOGIES

**General** Android, HTML5, CSS3, Javascript (Node.js, Angularjs), Bower, Gulp

**Frameworks** Django, Web2py, Ruby on Rails

**Databases** MongoDB, MySQL, PostgreSQL, Cassandra, SQLite

## MISC.

**Tools/Libraries** Docker, OpenCV, OpenGL, WebGL, gensim, theano, keras, nltk, scikit-learn

**Embedded systems** Arduino, Raspberry Pi, Intel Galileo

**Others** Matlab, GPU Programming, LATEX, RabbitMQ, Redis, Mixpanel, Mininet, Hadoop, Cisco Packet Tracker

# Relevant Courses

Machine Learning, Cloud Computing, Information Retrieval & Extraction, Artificial Intelligence, Computer Graphics, Advanced Computer Networks, Operating Systems, Internet of Things, Computer Networks, Algorithms, Compilers, Data Structures, Computer System Organization, Digital Signal Analysis & Appl; Introduction to Databases, Digital Logic & Processor, Structured systems analysis & design