

# SWAPNIL S. MAHAJAN

## PERSONAL DATA

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DATE OF BIRTH: 18 SEPTEMBER 1989  
CAMPUS ADDRESS: I-314, HALL OF RESIDENCE 7, IITK, KANPUR, UTTAR PRADESH - 208016  
PERMANENT ADDRESS: AT POST CHINAWAL, TAL RAVER, DIST JALGAON, MAHARASHTRA - 425505  
PHONE: +91 9198060901  
EMAIL: [SWAPNILSM@GMAIL.COM](mailto:SWAPNILSM@GMAIL.COM)  
[SWAPNILM@CSE.IITK.AC.IN](mailto:SWAPNILM@CSE.IITK.AC.IN)  
[SWAPNILM@IITK.AC.IN](mailto:SWAPNILM@IITK.AC.IN)

## WORK EXPERIENCE

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| JUL 2011-NOV 2012     | <div>SOFTWARE ENGINEER AT KPOINT TECHNOLOGIES PVT. LTD., PUNE<br/><i>Creating Discoverable Videos</i></div> <div><ul style="list-style-type: none"><li>- DEVELOPED HTML5 KAPSULE PLAYER USING CORE JAVASCRIPT FOR PRODUCT – KPOINT, A TOOL FOR SHARING KNOWLEDGE AND CONTENT IN LIVE MEETINGS IN THE FORM OF VIDEO, DOCUMENTS, DESKTOP CONTENTS, MULTIMEDIA FILES.</li><li>- DESIGNED AND IMPLEMENTED REPRESENTATIONAL STATE TRANSFER (REST) APIS FOR PRODUCT KPOINT.</li><li>- DESIGNED A RESPONSIVE MOBILE WEBSITE FOR PRODUCT.</li><li>- MENTORED AN INTERN IN HER PROJECT ON WEBSITE DEVELOPMENT.</li></ul></div> |
| AUG 2013-MAY 2014     | <div>TEACHING ASSISTANT FOR ESC 101 COURSE</div> <div><p>THE JOB IS TO ASSIST THE FRESHMEN TO ACQUIRE THE NECESSARY PROGRAMMING SKILLS IN THIS BASIC PROGRAMMING COURSE. IT INVOLVES EXPLAINING THE DETAILS OF PROGRAMMING, AND SOME BASIC CONCEPTS OF LOGIC IN A PROGRAM, RUNNING TIME OF A PROGRAM, ALGORITHMS ETC.</p></div>   |
| JULY 2014-AUGUST 2014 | <div>TEACHING ASSISTANT FOR COMPUTER LAB. COURSE (CS252)</div> <div><p>THE JOB IS TO ASSIST THE THIRD YEAR STUDENTS TO ACQUIRE THE NECESSARY LAB CONFIGURATION SKILLS IN THIS COURSE. IT INVOLVES EXPLAINING THE DETAILS OF LAB CONFIGURATION, AND DESIGNING THE ASSIGNMENTS FOR THE SAME.</p></div>  |

## EDUCATION

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APRIL 2014	MASTER OF TECHNOLOGY IN COMPUTER SCIENCE ENGINEERING, <b>Indian Institute of Technology</b> , KANPUR CGPA: 7.14/10.0
MAY 2011	BACHELOR OF ENGINEERING IN COMPUTER ENGINEERING, <b>Maharashtra Institute of Technology COE</b> , PUNE CGPA: 68.57/100.0
FEBRUARY 2007	HSC (STATE BOARD) <b>Nutan Uchcha Madhyamik Vidyalaya</b> , CHINAWAL, MAHARASHTRA CGPA: 85.33/100.0
MARCH 2005	SSC (STATE BOARD), <b>Nutan Madhyamik Vidyalaya</b> , CHINAWAL, MAHARASHTRA CGPA: 85.73/100.0

## TECHNICAL SKILLS

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PROGRAMMING LANGUAGES:	C, C++, SQL, JAVA, PYTHON, OCAML, SHELL SCRIPTING
WEB TECHNOLOGIES:	CORE JAVASCRIPT, NODEJS, SAILSJS, ANGULARJS, MEMCACHED, PLAY FRAMEWORK, PHP
DATABASE:	MYSQL, MONGODB
COMPILER TOOLS:	CIL - C INTERMEDIATE LANGUAGE <i>Static Analysis Tool</i>

## ACHIEVEMENTS

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AUGUST 2013	WINNER HACKU BY YAHOO RESEARCH AND DEVELOPMENT LABS
JUNE 2014	RANKED 74 <sup>th</sup> (OVERALL) IN EXPANSION CHALLENGE BY HACKERRANK
MAY 2014	QUALIFIED FOR 1ST ROUND OF CODEJAM
GATE 2013	ACHIEVED ALL INDIA RANK 780
JUNE 2013	SELECTED FOR THE POST OF SCIENTIFIC ENGINEER AT BHABHA AUTOMIC RESEARCH CENTRE (BARC)
JAN 2012	AWARDED "PAT-ON-THE-BACK" WHILE WORKING AT KPOINT
MARCH 2010	RUNNERUP ASSEMBLY LANGUAGE PROGRAMMING, TEXCELLENCE, MIT COE
MARCH 2010	SEMI-FINALIST C++ PROGRAMMING, IMPETUS AND CONCEPTS, PICT
MARCH 2009	RUNNERUP C++ MINI PROJECT COMPITITION, MIT COE
APRIL 2004	31 <sup>st</sup> RANK IN SATE MERIT IN M.T.S.E.
APRIL 2003	9 <sup>th</sup> RANK IN DISTRICT MERIT IN M.T.S.E.
APRIL 2002	6 <sup>th</sup> RANK IN 7 <sup>th</sup> STANDARD SCHOLARSHIP EXAM
FEBRUARY 2000	CLEARED JAVAHAR NAVODAYA VIDYALAYA ENTRANCE EXAM
APRIL 1999	3 <sup>rd</sup> RANK IN 4 <sup>th</sup> STANDARD SCHOLARSHIP EXAM

## RELEVANT COURSES

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M.TECH	DESIGN AND ANALYSIS OF ALGORITHMS CRYPTOLOGY MATHEMATICS FOR COMPUTER SCIENCE TOPICS IN GAME THEORY SOFTWARE ARCHITECTURE TOPICS IN OBJECT ORIENTED LANGUAGES IMPLEMENTATION COMPUTER SYSTEM SECURITY
B.E.	OBJECT ORIENTED MODELLING AND DESIGN OPERATING SYSTEMS PRINCIPLES OF COMPILER DESIGN ARTIFICIAL INTELLIGENCE COMPUTER ORGANISATION COMPUTER GRAPHICS THEORY OF COMPUTATION DATABASE MANAGEMENT SYSTEMS DATA COMMUNICATION SOFTWARE ENGINEERING SYSTEMS PROGRAMMING MANAGEMENT INFORMATION SYSTEMS

## M.TECH. THESIS

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ADVISOR	DR. SUBHAJIT ROY
DESCRIPTION	<ul style="list-style-type: none"><li>- RESEARCH IS BASED ON "DIRECTED AUTOMATED RANDOM TESTING"</li><li>- WORKING UNDER THE GUIDANCE OF DR. SUBHAJIT ROY JOINTLY WITH DR. AMEY KARKARE, DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING IITK.</li><li>- WE ARE WORKING ON DIRECTED AUTOMATED RANDOM TESTING FOR C LANGUAGE, USING MODIFIED CONDITION DECISION COVERAGE STRATEGY.</li></ul>

## PROJECTS

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PROJECT	AIR <i>Air Quality Index Webapp</i>
DESCRIPTION	DEVELOPED A WEBSITE FOR CENTRAL POLLUTION BOARD OF INDIA WHICH DISPLAYS THE AIR QUALITY INDEX FOR VARIOUS CITIES AT DIFFERENT TIME. IT PROVIDED VARIOUS FUNCTIONALITIES LIKE CITYWISE INDEX SEARCH, CITY RANKINGS AND CITY AIR QUALITY COMPARISON

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PROJECT	PIGEON <i>Ad Network</i>
DESCRIPTION	A PLATFORM TO CONNECT THE ADVERTISERS TO THE PUBLISHER WHO WANT TO HOST ADVERTISEMENTS. THE KEY FUNCTION OF THIS PROJECT WAS AGGREGATION OF AD SPACE SUPPLY FROM PUBLISHERS AND MATCHING IT WITH ADVERTISERS' DEMAND.

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PROJECT	HIGHLIGHTS AUTOGEN <i>An Automated Highlights Generator</i>
DESCRIPTION	THIS APP EXTRACTS THE HIGHLIGHTS OF THE A SPORTS MATCH VIDEO BASED ON THE AUDIO FEATURES. TO BE SPECIFIC, IT PROCESS THE AUDIO SIGNAL AND BASED ON THE EXCITEMENT LEVELS OF THE COMMENTATORS AND THE SPECTATORS, COMES UP WITH SIMPLE RULE BASED SEGMENTATION TO DETECT EVENTS.

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PROJECT	BUZZER <i>An Online Sentiment Informer</i>
DESCRIPTION	THIS APP CRAWLS OVER INTERNET AND FINDS OUT WHAT THE "COMMON" PEOPLE ARE TALKING ABOUT SOME PRODUCT OR PERSONNEL. IT FINDS THE SENTIMENT OF PEOPLE ABOUT IT/HIM AND THEN DISPLAYS THIS SENTIMENT LOCATION WISE ON WORLD MAP.

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PROJECT	LIGHTMQ ( B.E. PROJECT ) <i>Point to Point Message Orinted Middleware</i>
DESCRIPTION	A MESSAGE ORIENTED MIDDLEWARE BASED ON THE JMS APIs WHICH CAN BE USED TO MAKE THE HETEROGENEOUS SYSTEM COMMUNICATION ASYNCHRONOUS.

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PROJECT	ONLINE BOOK STORE
DESCRIPTION	IN THIS PROJECT A WEBSITE FOR ONLINE BOOK SHOPPING WAS CREATED HAVING BOOKS OF DIFFERENT GENRE AND HAVING FLEXIBLE SEARCH QUERIES.

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PROJECT	TELECOM CUSTOMER RELATIONSHIP MANAGEMENT
DESCRIPTION	THE SOFTWARE SERVED THE PURPOSE OF FILING, RETRIEVING AND RESOLVING THE COMPLAINTS IN CUSTOMER-COMPANY INTERACTIONS. IT SERVED AS THE SOLUTION FOR CUSTOMER AS WELL AS COMPANY STAFF USEFULNESS.

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PROJECT	BANKING SYSTEM
DESCRIPTION	IT WAS A CHALLENGING PROJECT IN WHICH THE BANKING SYSTEM WITH RUNTIME INTEREST CALCULATION WAS REQUIRED TO BE BUILT WITH THE EXTENSIVE USE OF OBJECT ORIENTED FEATURES AND COMPUTER GRAPHICS.

## AREAS OF INTEREST

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SCALABLE WEBAPP DEVELOPMENT  
COMPITITIVE PROGRAMMING  
SYSTEMS  
MOBILE APPLICATION DEVELOPMENT

## POSITION OF RESPONSIBILITY

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ACCOUNTS SECRETARY: MAHARASHTRA MANDAL 2014-15  
*Organisation of Marathi Students, Faculty and Staff*  
ORGANISER: TESLA 2010, NATIONAL LEVEL TECHNICAL EVENT, MIT COE  
ORGANISING COMMITTEE MEMBER: ROBOCON 2008, ABU ASIA PACIFIC ROBOT CONTEST, PUNE

## WEB PRESENCE

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LINKEDIN: [IN.LINKEDIN.COM/IN/SWAPNILSM/](https://in.linkedin.com/in/swapnilsm/)  
HACKERRANK: [WWW.HACKERRANK.COM/SWAPNILSM](https://www.hackerrank.com/swapnilsm)