

Rajesh Surana

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Graduate student in Computer Science with 2.5 years of Professional Experience as a **Software** and **Web Developer** with excellent analytical skills and Information Technology background seeking a **Full-Time** opportunity

TECHNICAL/COMPUTER SKILLS

Programming – **C#, C++, JAVA** (core, Spring MVC), **Python** (SimpleGUI, PyMongo, Turtle), **Ruby, Git**, Android Development, C, Shell script, Open GL, CAA
Web Technologies – SEO, MVC, HTML5, CSS3, JavaScript (jQuery, Angular.js), PHP5 (Yii, Zend), Bootstrap3, Ruby on Rails, AJAX
Database – MongoDB, Oracle-9i: SQL, MySQL, MSSQL, PACS
Software – Visual Studio, NetBeans, Eclipse, Canopy, Code Skulptor, Python IDL, Android Studio, IntelliJ IDEA, VMWare, Dreamweaver, Rational Rose, Adobe Photoshop, CorelDraw, CATIA,

PROFESSIONAL EXPERIENCE

Software Developer Intern (Aug 2015-Today)

Edupoint Educational System LLC Mesa

- **Technology:** C#, .Net, Microsoft SQL Server 2008, Synergy Technology (Designer API), DB Tools, Issue Builder
- Developing student information system for the K-12 Education market
- Implementing validation checks on Virginia State Report Extract fields

Web Developer Intern (May 2015-Aug 2015)

Explosion Sportswear Phoenix

- **Technology:** HTML, CSS, PHP, jQuery, Yii, Zend, Bootstrap, MySQL, API, Server Setup, htaccess, Email configurations
- Developed complete E-commerce website from front-end to back-end in MVC architecture
- Designed database for storing sell and user information; Developed smooth and minimum interaction payment system
- Fresh designs for showcasing products; Setting up server and email configurations; Using Git for development process

Software Developer and Release Manager (CATIA R&D) (Aug 2012-Jul 2014)

3DPLM Software Solutions Ltd. (Dassault Systems) Pune

- **Technology:** C++, Java, Shell script, Visual Studio, CAA, Unit Tests, Batch Tests, SCM tool
- Improved performance of the product in terms of memory usage (in MBs) and response time (>5%)
- Provided quick fixes without regression for issues from clients like Boeing, Honda, Mercedes, NOKIA and Toyota
- Analyzing the quality of the code written by 3 teams; Preparing the knowledge sharing documents to train freshers
- Collecting and promoting best quality code of 3 teams to counterparts in France using SCM tool; developed automation scripts

EDUCATION

Masters in Computer Science (GPA-3.95/4.0) (Aug 2014-May 2016)

Arizona State University, Tempe, AZ

- **Coursework:** Software Security, Software Analysis and Design, Foundations of Algorithm, Advanced Operating System, Distributed Multiprocessor OS, Principle of Programming Languages, Semantic Web Mining, Data Visualization

Bachelors in Information Technology (GPA-3.8/4.0) (Jul 2008-May 2012)

Walchand College of Engineering, Sangli (Shivaji University), India

- **Coursework:** Software Engineering, Data Structures and Files, Web Technologies, Advanced Database, Data Mining, Unix Operating System, Mobile Technology, Distributed Computing,

MOST RECENT ACADEMIC PROJECTS

Online Secure Banking System (Team of 8) (Ongoing)

- Facilitate secure banking transactions and user account management through the Internet
- **Technology:** Java (Spring), MySQL, Spring Tool Suite, Apache Tomcat,

E-commerce Website for Explosion Sportswear (individual) – [Visit Website](#) (Summer 2015)

- E-commerce website that allows you to crowdfund awesome custom apparel, with zero costs and zero hassle
- Developing complete website - front-end and back-end as well as database
- **Technology:** PHP (Yii, Zend), JavaScript (jQuery), CSS (Bootstrap), HTML5, MySQL, Git, Photoshop, AJAX

- Online Visual Recommender Website for Stackoverflow** (individual) – [Visit Website](#) (Spring 2015)
- First of its kind - personalized responsive interactive visual recommender in the matrix form with user-controllable interface
 - It enables users to compare recommended results for different categories as well as public interest vs personal affinity for topics
 - **Technology:** Bootstrap, jQuery, PHP, SVG, AJAX
- Recommendation System for Business Services** (team of 7) (Spring 2015)
- Building an efficient recommendation engine based on semantic analysis that incorporates data from heterogeneous social networks and thereby addressing the cold-start problem
 - Technologies: **Python**, Java, Freebase
- Compiler Construction in JAVA** (individual) – [GitHub-Code](#) (Fall 2014)
- Composed of four stacks – Lexer, Parser, Semantic Analyzer and Code Generator
 - **Technology:** State Table, Regular Expressions, DFA, BNF, EBNF, Syntax diagram and Binary-Search Tree
- Clock Synchronization in Distributed Environment (Linux)** (individual) – [GitHub-Code](#) (Fall 2014)
- Developed a kernel module as a character driver which can be used by application to access device
 - Designed a new networking protocol on IPv4 level for clock synchronization to impose ordering on messages
- NetraRIS – a Web based DICOM Viewer with Hospital Management** (team of 3) (2011-2012)
- NetraRIS is an online 3D DICOM viewer. It uses the graphical power of clients system using WebGL to render 3D view of DICOM images on browser. 3D image formation is done at server on the request of user. Server uses VTK library to construct real time 3D view from DICOM images. Led to the **publication** in [International Journal of Computer Applications](#).
 - **Technology:** **PHP, HTML, MySQL**, VTK library, PACS Server, DCM4CHE, WebGL, Wavefront.obj, AJAX

PERSONAL PROJECTS

Python Programming – [View Portfolio \(GitHub\)](#)

- These are the games and other cool programs that I coded during leisure to pursue my interest
- Some of the games: Hangman, pong, Asteroids, Blackjack, word game, Rock-paper-scissors-lizard-Spock

Android Programming – [View Portfolio \(GitHub\)](#)

- While completing google Android Development Nanodegree I developed these applications
- Some of the apps: Court Counter, Sunshine Weather, To-Do List

Java (Core) Programming – [View Portfolio \(GitHub\)](#)

- These are the programs that I coded during leisure to pursue my interest
- Problem statements are from hackerrank.com, cracking the coding interview, career-cup.com, geeksforgeeks.com

Java (Spring, Spring MVC) Programming – [View Portfolio \(GitHub\)](#)

- These are the programs that I coded during leisure to pursue my interest
- Programs are from various courses from Pluralsight online learning website

Ruby Programming – [View Portfolio \(GitHub\)](#)

- These are the programs that I coded during completing online courses
- Problem statements are from codecademy.com, codeschool.com

C# Programming – [View Portfolio \(GitHub\)](#)

- These are the programs that I coded during completing online courses on Microsoft Virtual Academy

ACCOMPLISHMENTS AND EXTRA-CURRICULAR

- **Achievement Award for Excellence** in Web Development during Summer 2015 Internship – [Certificate](#)
- Consistently ranked among Top 5 percentile for all the four years in the undergraduate – selected for state scholarship
- Community service by developing Blood Donation Registry software (JAVA) ([GitHub-Code](#)) for Rotaract Club
- Technical Service Director at WCE IT student club

ONLINE CERTIFICATIONS & COURSES

Algorithms – Part I by Princeton University – Syllabus	(Ongoing)
M101J: MongoDB for Java developers by MongoDB University – Syllabus	(Ongoing)
M101P: MongoDB for Python developers by MongoDB University – Syllabus	(Ongoing)
Java Tutorial for Complete Beginners on udemy – Syllabus	(Ongoing)
Introduction to Spring MVC on Pluralsight – Syllabus	(Ongoing)
Spring Fundamentals on Pluralsight – Syllabus	(Sep 2015)
UML Databases (DB9) by Stanford University on Lagunita – Syllabus Certificate	(Sep 2015)
Programming for Everybody (Python) by University of Michigan on Coursera – Syllabus Certificate	(Aug 2015)
An Introduction to Interactive Programming in Python (Part 2) by Rice University on Coursera – Syllabus Certificate	(Aug 2015)
Introduction to Computer Science and Programming Using Python by MIT on EdX – Syllabus Certificate	(Aug 2015)
JSON Databases (DB2) by Stanford University on Lagunita – Syllabus Certificate	(Aug 2015)
SQL Databases (DB5) by Stanford University on Lagunita – Syllabus Certificate	(Aug 2015)
Programming in C# Jump Start by Microsoft Virtual Academy – Syllabus Certificate	(Jul 2015)
C# Fundamentals for Absolute Beginners by Microsoft Virtual Academy – Syllabus Certificate	(Jul 2015)
An Introduction to Interactive Programming in Python (Part 1) by Rice University on Coursera – Syllabus Certificate	(Jul 2015)
Shaping up with Angular.js on Code School – Syllabus Certificate	(Jul 2015)
Try Ruby on Code School – Syllabus Certificate	(Jul 2015)
Ruby on Code Academy – Syllabus Certificate	(Jul 2015)
Rails for Zombies on Code School – Syllabus Certificate	(Jul 2015)
Ruby Primer on Ruby Monk – Syllabus Certificate	(Jul 2015)
Linux Survival – Link	(Jul 2015)
jQuery on Code Academy – Syllabus Certificate	(Jul 2015)
Programming Mobile Applications for Android Handheld Systems: Part 1 by University of Maryland on Coursera – Link	(Jul 2015)
Android Development for Beginners by Google on Udacity – Link	(Jun 2015)
JavaScript Basics on Udacity – Link	(Jun 2015)
Intro to jQuery on Udacity – Link	(May 2015)
How to Use Git and GitHub on Udacity – Link	(May 2015)
Programming Foundations with Python on Udacity – Link	(May 2015)
Website Performance Optimization on Udacity – Link	(Apr 2015)
Responsive Web Design Fundamentals on Udacity – Link	(Mar 2015)
Intro to HTML and CSS on Udacity – Link	(Feb 2015)