

Jayesh Kawli

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CAREER OBJECTIVE

Seeking a full time position in software design and development field that will utilize my skills and abilities, and offer organizational growth while being innovative and flexible

EDUCATION

Indiana University, Bloomington, IN

Master of Science in Computer Science

Cumulative GPA: 3.64/4.0

May 2013

Mumbai University, Mumbai, India

Bachelor of Engineering in Computer Engineering

Cumulative GPA: 3.6/4.0

June 2010

WORK EXPERIENCE

Duet Health Corporation, Columbus, Ohio

August 2013-September 2013

Web Developer- 'Request an Appointment' application for Nationwide children's Hospital (ASP.Net, C#, SQL Server)

- Developed an application in ASP.NET for Nationwide Children's hospital to make online appointments
- Built input forms using with HTML and CSS on the frontend, C# as a middleware with SQL server back end
- Used stored procedures for data related tasks to preserve data security and ease of updating the data layer
- Added session support to store successive appointment requests and stored information in SQL server database
- Earned valuable web development experience by actively participating in all major application development phases

Duet Health Corporation, Columbus, Ohio

September 2013-October 2013

Mobile Developer-Enhancement in 'OhioHealth mobile application' for OhioHealth Organization (Xcode, Objective-C)

- Worked on 'OhioHealth mobile application' to enhance its user interface and functionality
- Added support to update patient information in terms of a physician, health specialty and treatment timeline
- Incorporated feature to allow patients to send their feedbacks regarding Oncology treatment to hospitals (JSON data)
- Gained valuable experience in Objective-C and iOS MVC framework by working on both iPad and iPhone versions

Hank's College Football Recruiting, Bloomington, Indiana

July 2012-January 2013

Web Developer (PHP, HTML, CSS, jquery, JavaScript, MySQL)

- Developed a football players recruiting website as a platform for upcoming high school and college players
- Allowed players to upload their profiles and other recruiters to search for players with desired skills.
- Integrated functionality such as private messages exchange, building personal profile and Ajax based dynamic search
- Gathered strong professional experience with web based software and database development

Tata Consultancy Services, Pune, India

August 2010-June 2011

Assistant Systems Engineer (Banking and Financial Services)

- Worked on problems and solutions related to DB2 and Mainframe system for Real Time debit card transaction system
- Gained in depth practical experience in project management by verifying functionality in test and quality analysis phase
- Gained advanced technical knowledge of Mainframes and DB2 by troubleshooting the various business issues and performance glitches in implementation
- Involved in strong communication and negotiation skill through interaction with managers and client

Technical Skills

Languages: C, C++, Java, PHP, MATLAB, R, COBOL, Python, Perl, Ruby, ASP.NET, C#, Objective-C

Platforms: Microsoft Windows, OS/360, Linux, Mac OS X 10.8

Web Development: HTML5, CSS3, JavaScript, Ajax, JQuery, Google Web toolkit, Node.js, Canvas

Databases: MySQL, Oracle9i, DB2, PL/SQL, SQLite, PostgreSQL, SQL Server, Core Data

Miscellaneous: Apache Tomcat, JUnit, Mockito, GitHub, Jenkins, Maven, Eclipse, NetBeans, Xcode, Titanium, Visual Studio, Aptana Studio 3, MVC architecture

Related Coursework

Analysis of Algorithms, Distributed Systems, Advanced Database Management System, Computer Vision, System and Protocol Security and Information Assurance, Data Mining, Computer Networks, Database theory and Systems

Academic Projects

Page Rank Algorithm (Java) – Sep 2012

- Implemented sequential page rank algorithm to evaluate top 10 most important web pages from a set of 1000 URLs
- Developed parallel version of the page rank algorithm using MPJ to improve performance
- Analyzed behavior using SIGAR and ActiveMQ libraries on 2 million URLs situated on more than one distributed nodes
- Efforts of our team lead us to stand among top 3 project teams in a class

Social networking website (PHP, JavaScript, HTML 5, CSS3) - May 2012

- Developed a social networking website using Ajax, PHP and other web development tools
- Implemented chat and Private Messaging capability along with capability to friend and unfriend people
- Integrated website with many Facebook and Twitter based features
- Gained valuable insight regarding how simple programming languages can be utilized to provide excellent features

RANSAC (Random Sample Consensus) algorithm (C++) - Mar 2012

- Implemented RANSAC algorithm for Image stitching and Panorama Creation
- Project included extracting image features using 'Tomasi and Harris' corner detection algorithm
- Tested on different real world with successful results on a set of more than two images

Geo Location detection from images (C++, MATLAB) - May 2012

- Implemented and analyzed 'Geo location detection' algorithm to capture physical location from object shadows
- Experiment was based on a paper by Prof. Frode Erika Sandnes 'Determining the Geographical Location of Image Scenes based on Object Shadow Lengths'
- Successfully verified this algorithm at Bloomington, Indiana and achieved a significant statistical accuracy

K-Means data clustering algorithm (C++) - Sep 2012

- Implemented and analyzed K-means data clustering algorithm on 'Wisconsin breast cancer data'
- Used 10-fold cross validation method to verify its correctness on unlabeled data. Performed unsupervised learning
- Observed more than 90% accuracy on final classification result

Naïve Bayes algorithm on fraudulent sales data (C++) - Nov 2012

- Implemented and analyzed simple probabilistic Naïve Bayes data classification algorithm on fraudulent sales data
- Executed algorithm on more than 4 lakh input records with approximately 15000 training and 3.5 lakh test records
- Observed more than 90% final accuracy on final classification model by applying it on training data with known labels

Port Scanner (C) – Oct 2012

- Developed a simple port scanner with Full IPv4 and partial IPv6 support with PCAP - packet capture library
- Studied the interplay of various implementations of firewalls, transport protocols and operating systems
- Verified standard services such as SSH, HTTP, SMTP, POP and IMAP if they are indeed running on respective ports
- Added multi-threading support for faster implementation on multiple ports

Depth Map Estimation from 2-D images (C++) - Mar 2012

- Created a simple disparity and depth map for pair of 2-Dimensional images using Hidden Markov Model
- Disparity map was created for a given set of images using pixel window and minimizing sum squared error
- Depth map was built using Markov Random fields using bidirectional message passing technique between two neighboring pixels

Web crawler and Document parser (Perl) - May 2012

- Developed a web crawler to download and parse URL content using Perl regular expressions
- Stored URLs in MySQL database and iteratively added as they were found in successive links
- Used similar logic to extract and store email ids from a group of input webpages
- Gained experience with web crawling and how it can be utilized to automate large amount of data collection tasks