Jayesh Kawli

6835 Greenleaf Drive, Apt. F3
Reynoldsburg, OH 43068
j.kawli@gmail.com
(419) 285-6105

CAREER OBJECTIVE

Seeking a full time position in software design and development field that will utilize my skills and abilities, and offer an 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 - Current*
iOS Mobile Developer – 'Tools4U' iOS app for Nationwide Children's Hospital (Xcode, Objective-C, RestKit, Core Data)

- Worked on a Tools4U app for Nationwide Children's hospital to improve major backend and middleware functionality
- Included complex care, nutrition and diabetes journals to record patients' daily feeding information
- Added full offline support by Incorporating advanced object mapping and core data APIs
- Involved in significant decision making for iOS7 transition and support for newer devices
- Played important role in provisioning and releasing application in production and post-release maintenance

Duet Health Corporation, Columbus, Ohio — *August 2013 - Current*
iOS Mobile Developer- 'MyChildren's' iOS app for Nationwide Children's Hospital (Xcode, Objective-C, Core Data)

- Worked on '*Nationwide Children's MyChildren's*' mobile application' to enhance its architecture and functionality
- Significantly involved in refactoring old version for easy maintenance and creation of Objective-C libraries
- Utilized advanced networking libraries and core data for caching support and speed improvement
- Developed a reusable CocoaPods plugin for sliding image view to provide better user interface
- Gained valuable experience in newer iOS design patterns, block based APIs and core data framework

Duet Health Corporation, Columbus, Ohio — *August 2013 – October 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

Hank's College Football Recruiting, Bloomington, Indiana — *July2012-January2013*
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

Personal Project — *March 2014 – Current*
Web developer - Online Airline booking application (PHP, MySQL, Angular JS, JavaScript, Bootstrap)

- Currently working on developing online airline booking application using Google angular JS framework
- Application supports basic ticket booking, online email confirmation, flight search based on various filters, parameters and weather updates for relevant locations
- Utilized Angular JS as a MVC based data binding component with front-end supported by Bootstrap framework
- Incorporated PHP/MySQL as a backend with PHP Data Objects (PDO) to support data-access abstraction
- Included ability to store and retrieve booking records on server and client side caching to reduce network load
- Currently working on user interface using material design with Google's polymer framework

Technical Skills

Languages: C, C++, Objective-C, Swift, Java, PHP, MATLAB, R, COBOL, JCL, Python, Perl, Ruby, C#
Platforms: Microsoft Windows, OS/360, z/OS, Linux, Mac OS X 10.8
Web Development: HTML5, CSS3, JavaScript, Ajax, Jquery, ASP.NET, Canvas, KineticJS, Angular JS, Bootstrap
Databases: MySQL, Oracle9i, DB2, PL/SQL, SQLite, SQL Server, Core Data (Magical record), PHP data objects (PDO)
Miscellaneous: Apache Tomcat, GitHub, Jenkins, Eclipse, Latex, Xcode, Titanium, Visual Studio, Aptana Studio 3, MVC architecture, JSON, RESTful web APIs, Pony debugger, CocoaPods, RestKit, Crashlytics

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, HTML5, 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

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