**BHARGAV LAKKUR KUSHA KUMAR**

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**EDUCATION**

**Sacred Heart University,** Fairfield, CT April 2016

*Master of Science in Computer Science – Information Technology* GPA: 3.99/4.0

Related Courses: Advanced Database Design (Oracle SQL), Intro to programming using scripting (Python), Intro to Object Oriented Programming (Java), Data Structures and Algorithms (C++), Advanced Computer Gaming (C#), Flash Animation, Web Design using JavaScript, and Networking Apps

**Govt. SKSJTI, Vishveshwaraya Technological University,** Bangalore, India June 2013

*Bachelor of Engineering in Electronics and Communication*  GPA: 3.05/4.0

Related Courses: C++ Programming, Digital Communications and Digital Signal Processing

**TECHNICAL KNOWLEDGE**

**Programming**: C, C++, C#, Java, ASP.NET MVC, Python, Spring Framework, Spring Boot, Hibernate, Java2EE

**Scripting:** ActionScript, and Shell Scripting

**Web Design:** HTML, HTML5, CSS, LESS, JavaScript, JQuery, Bootstrap, AJAX, JDBC, JSON, XML, PHP, JSP, Servlets, AngularJS, Freemarker, Thymeleaf, Tomcat, Spark, Maven, and RESTful Web Services

**Tools & Practices:** Adobe Flash, Linux (Terminal), Linux Administration, Android Studio, Eclipse, NetBeans, IntelliJ, Visual Studio, Unity, Git, SDLC (Agile), Resharper, MS Unit and Raspberry Pi

**Databases:** MySql, Microsoft SQL Server, Oracle SQL, and MongoDB (No SQL DB)

**Certifications:** Bootstrap - Coursera (February 2016), and Python – Edx (March 2016)

**WORK EXPERIENCE**

**Itslearning, Newton MA 02458** January 2017 - Present

**(Full stack .Net developer)**

* Actively been working with C#, optimizing current approaches such as using dictionaries to cache data instead of making redundant database calls.
* Worked on Keyboard navigation (just like Excel) with accessibility point of view using JQuery.
* Have been working on production bugs like instead of loading data on client side at once, we isolated commonly used nodes and worked with JS to append it only when necessary.
* To grade students on gradebook instantaneously we made Ajax calls with appropriate Web API handling it.
* Tech Used: **C#, ASP.net MVC, Javascript, JQuery, AJAX, JSON, MySql, HTML and CSS**

**A N D Technologies Pvt. Ltd., Bangalore KA 560001** July 2013 - November 2014

**(Software developer)**

* Developed applications for A N D Tech using Java and maintain the existing applications.
* Part of a team, developing web application using JSP and Servlets.
* Application testing for bugs and logic errors.
* Worked on “**Faster Detection of Cardiac Arrhythmia for Remote Patients**” for **INTEL Corp.**

**Projects**

**JavaScript Library for Flash Animation** July 2016

* This solves the problem of playing flash animations on mobile device.
* Used a simple algorithm to handle series of images (Animation converted to images) along with SetTimeout JS method to play animations with varying speeds along with bunch of other settings.
* Tech Used: JavaScript, Adobe Flash, Ajax, PHP, Bootstrap, and MySql.

**Home Automation** May 2016

* Convenient way to control the lights at home with a web interface in less than 10 seconds.
* Imported Pi4Led library into Java Spring boot web application and gave logic to handle web requests as required while raspberry pi controlled the LED’s based on the response from Web requests.
* Tech. Used: Spring Boot, Hibernate, AJAX, JavaScript, Bootstrap, HTML, Pi4Led, Java2EE, and Mysql

**Instant Messaging Application**  April 2016

* Worked on Trie data structure to build a tree of 1000 good and bad words, by using this to search for words was faster and used in emotional intelligence, which gave predictions of each message by changing background color of those messages.
* Used file streams in java to send and receive Doodles, files and messages by serializing and streaming in client – server architecture.
* Tech Used: JavaFX, Java, MySql, PHP, Bootstrap, HTML, CSS, AngularJS, & Linux (Rpi).

**Weather Application (Pebble Smartwatch)**  January 2016

* Reduces the time to check the weather by 75%, by giving comprehensive data about the location.
* Tech Used: JSON, JavaScript, and AJAX.

**To-Do List Website** November 2015

* Spring MVC framework to work on controller to handle web requests along with model and hibernate as ORM with MySql for data layer to handle user data while using AngularJS to maintain the list and perform actions on the front end.
* Used Bootstrap for making the page look modern while used flash animation for header.
* Tech Used: Flash, JavaScript, Bootstrap, Spring, Hibernate, Java2EE, AngularJS, and MySql.

**Little Katie** November 2015

* First person controller shooting game with AI enabled zombies tracking the player (made using navmesh agent).
* Worked on Keyboard controls to control player while also enabling many other add-ons.
* This game comprises of different challenges and requires the player to collect certain number of coins to win the game.
* Tech Used: C# and JavaScript

**Ticket Management Application** October 2015

* Designed to make the work easier to buy, verify and manage tickets for the events.
* Tech Used: Java and MySql.

**Sign Up Page for Client Website (A N D Technologies Pvt. Ltd.)** July 2014

* Entrusted to design and develop interactive registration page as per client requirements.
* Tech Used: JSP, Ajax, XML, and RESTful Web Services.

**Intruder Detection and Reporting System** September 2013

* Using Raspberry Pi, PIR sensor, Python, and Pi camera, I created a simple application for securing my home, when I was away.