Piyush Bajaj

San Jose, California

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Education

San Jose State University

M.S. Computer Science

Expected – May 2019

Microsoft Summer School

Machine Learning

Indian Institute of Science

Completed – June 2015

Bangalore Institute of Technology (VTU)

B.E. Computer Science

Graduated – May 2015

Skills

Languages: C | Java | PHP | SQL
Python | C++ | JavaScript

Technologies: Git | HTML5 | CSS
MySQL | Node.js | AJAX | Spark
Bootstrap | AWS | MongoDB
jQuery

Extracurricular

- **Winner** at 36 hours SureWaves **Hackathon** 2014.
- Certified in "**Mobile App Analytics**" by **Google**.
- Certified in "**IoT and Smart Services Technology**" by SAP.
- **2nd** in app **development** at IIT Mandi.
- Certified by University of Toronto in "**Programming Fundamentals**".

GitHub

github.com/piyushbajaj0704

Portfolio

piyushbajaj.in

LinkedIn

linkedin.com/in/piyushbajaj0704

Work Experience

Unisys Corporation - **Associate Engineer**   Bangalore (July 2015 – July 2017)
- Achieved a 5% higher transfer rate used by proprietary distributed systems in C and COBOL.
- Redesigned the Web Administrator Application with Bootstrap and SASS pre-processor which provided an intuitive UI experience.
- Reported 80+ issues by testing the Apex Administrator Application under Unisys OS.

Zomato – **Software Developer Intern**   Gurgaon (Summer 2015)
- Worked with the Zomato's Web Team developing first of its kind prototype of a web app which enables customers to make restaurant reservations online in real time.
- Analysed the best implementation for table allocation system, researched relevant UI frameworks and JavaScript libraries which enabled a seamlessly faster integration.

Microsoft – **Developer (Student Partner)**   Bangalore (April 2014 – June 2015)
- Worked on integrating chat application using Node.js on Microsoft student community portal.
- One of the judges in Microsoft's prestigious Imagine Cup Challenge where I helped and evaluated most of the windows game application submissions by high school students.

TreeWalker Technologies – **Web Application Intern**   Bangalore (Spring 2014)
- Designed a Stack Overflow inspired web application using PHP, AJAX, Code Igniter Framework which leveraged employee's collaboration by 40% in a span of 3 months.

Academic Projects

Driver Sleep Detection System – **Computer Vision Application**
Implemented a monitoring system to indicate driving aptitude of a driver and alarm is raised based on eye blink and mouth yawning rate of the driver if fatigued. *Used C, Sobel, MATLAB, and SVM.*

Mars Rover – **3D Object Manipulator**
Built a direct manipulation interface for selection, navigation and manipulation of the mars rover on a 3D Martian terrain model. *Used open Frameworks and C++.*

Farm IoT data processing and analytics – **Big Data/Machine Learning**
Designed a Big data as a Service framework where we can do real-time data stream processing of plant's health via green color index and growth rate. It provides statistical analysis to predict for any plants diseases from its data. *Used Node.js, Spark, MongoDB, Python, AWS, ML.*

Load Balancing Algorithm Framework – **Cloud Computing**
Implemented an advanced fuzzy clustering algorithm to manage load efficiently across multiple nodes in a constrained Cloud Computing environment. *Using Java, CloudSim.*

Side Projects

Hola – **Find your friend**
Created a web-app where a user can register via Facebook and view neighboring friends in real time over a Google Map interface. The user can narrow search results based on various input parameters. *Used JavaScript, MongoDB, REST, Google Map API, Facebook Graph API v2.10.*

Faces of BIT – **Campus Connect Networking Platform**
Launched a social networking site in my campus to help students to get to know other students by liking each other photos and making interaction happen in a more fun way. *Used PHP, jQuery.*

Balloons Burster – **Windows 8.1 Store App**
Developed a Window's Desktop game where one can compete with other players and earn points by shooting balloons in each time frame. *Used WinJS, HTML5, XML, Bootstrap.*

Online Mart – **SureWaves Hackathon**
Designed a Quotation Management System for products for known customers considering various stakeholders and entities in the database system of SureWaves. *Used PHP, HTML5 and REST.*