

# Piyush Bajaj

San Jose, California

[www.piyushbajaj.in](http://www.piyushbajaj.in)

[piyushbajaj0704@gmail.com](mailto:piyushbajaj0704@gmail.com)

+1 669-281-9534

## 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  
AngularJS | 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](https://github.com/piyushbajaj0704)

## Portfolio

[piyushbajaj.in](http://piyushbajaj.in)

## LinkedIn

[linkedin.com/in/piyushbajaj0704](https://linkedin.com/in/piyushbajaj0704)

## Work Experience

### Unisys Corporation - Associate Engineer

Bangalore (July 2015 – July 2017)

- Achieved a 5% higher transfer rate in the SILAS product used by proprietary distributed systems.
- 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.*