

# Piyush Bajaj

San Jose, California

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## Education

San Jose State University	M.S. Computer Science	Expected - June 2019
Microsoft Summer School	Machine Learning	Completed - June 2015
Bangalore Institute of Technology	B.S. Computer Science	Graduated - May 2015

## Work Experience:

**Unisys Corporation - Associate Engineer** Bangalore (July 2015 – July 2017)

- Trained and stimulated the employee hiring ML models at Unisys using GitHub and ML APIs.
- Upgraded the Web Administrator Application with Bootstrap and AngularJS framework which provided an intuitive UI experience and led 2 US clients to invest in the product.
- Developed and incorporated features written in C for communication products to achieve a 5% higher transfer rate in the centralized Unisys OS environment.
- Reported 80+ issues to stabilize Apex Administrator Application under Unisys OS.

**Zomato - Software Developer Intern** Gurgaon (Summer 2015)

- Worked with the Zomato's Desktop 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.

## Skills

**Languages:** C, Java, PHP, SQL, C++, Python, JavaScript.

**Technologies:** Git, HTML5, CSS, AWS, MySQL, Node.js, AJAX, Spark, SQL, Bootstrap, MongoDB.

## 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, Viola-Jones, Sobel, 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**

Designing 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 by providing statistical analysis for prediction. *Used Node.js, Spark, MongoDB, Python, AWS, ML Library.*

### **Load Balancing Algorithm Framework– Cloud Computing**

Implementing 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**

Creating 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 Win JS based on Microsoft web stack, 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.*

## **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)