

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

FireEye Inc. – Software Engineering Intern

Milpitas, CA (Jun 2018 – Present)

- Currently working on a POC to migrate existing security binary files and its metadata to a reliable, resilient server using Python scripts to improve the current content distribution system.

Associated Students, SJSU – Web Developer

San Jose, CA (Mar 2018 – Jun 2018)

- Deployed the voting application using JS, PHP, Oracle Server which was successfully used in the Spring 2018 A.S student government elections at San Jose State University.
- Fixed 10+ XSS, injection, slow HTTP Post and critical security vulnerabilities in the AS application.

Unisys Corporation - Associate Engineer

Bangalore (July 2015 – July 2017)

- Achieved a 5% higher transfer rate in their proprietary distributed systems based on C and COBOL.
- Reported 80+ issues by testing the Apex Administrator Application under Unisys OS.

Zomato – Software Developer Intern

Gurgaon (Summer 2015)

- Worked on a 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 the Microsoft Imagine Cup where I gauged various windows game application.

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 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. *Used Node.js, Spark, MongoDB, Python, AWS.*

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. *Used 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. *Used JavaScript, MongoDB, REST, Google API, Facebook Graph API.*

Faces of BIT – Campus Connect Networking Platform

Launched a social networking site on 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.*