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# Abhishek Zambre

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## EDUCATION

**M.S. Computer Science**, Arizona State University, Tempe, AZ. GPA: 3.44/4  
**B. Tech. Computer Engineering**, College of Engineering, Pune, India.

**05/2018**  
**05/2009**

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, C#, C++, C, Bash.  
**Frameworks:** Django, WCF, Node.js, Hadoop, MapReduce, Spark, Scala, Tkinter.  
**Back-end Technologies:** RESTful, SOAP, Apache Tomcat/HTTP Server, IIS, Ruby on Rails.  
**Front-end Technologies:** JavaScript, Ajax, HTML5, CSS3, jQuery, Bootstrap.  
**Databases:** MySQL, PostgreSQL, MongoDB.

## PROFESSIONAL EXPERIENCE

- Research Aide** **ASU Photovoltaic Research Laboratory** **06/2017 – Present**
- Led full lifecycle of website development for real-time data analysis and monitoring.
  - Designed and developed back-end using Django framework and MySQL.
  - Assisted front-end programming using HTML5, JavaScript, Ajax, and CSS3.
- Senior DevOps Engineer** **Zimbra Inc. (India)** **06/2014 – 07/2016**
- Part of a DevOps team to perform build and release activities for Zimbra Collaboration Suite and Desktop application.
  - Administration of SCM servers (Perforce), along with setup and maintenance of build VMs.
- Senior Software Developer (DevOps)** **Amdocs (India)** **07/2012 – 06/2014**
- Identify and initialized DevOps activities with development teams, vendors, and the customers.
  - Automation and performance tuning of product builds which resulted in 40% faster product delivery.
  - Deployment of builds on production servers and provide 24x7 support to development and testing teams.
- Software Developer (ETL)** **Amdocs (India)** **08/2009 – 07/2012**
- Developed data migration framework called ADMEM (Automatic Data Migration Execution Manager) to fully automate ETL operations on the database with over 50 million records in 4 hours.
  - Provided development support for C++ based tool for data migration called MigDrive.
  - Developed web application for reconciliation reporting, and data migration monitoring & quality control.

## ACADEMIC PROJECTS

- Geospatial Distributed Computing (MapReduce, HDFS, Scala, Spark, GeoSpark API)** **Fall 2017**
- Performed big data analysis for cab dataset using GeoSpark API to filter top 50 cab pick-up location hotspot.
  - Implemented MapReduce in SparkSQL and used Hadoop File System on Hadoop cluster of 5 machines in Scala, divided data set into grids, calculated Getic-Ord  $G_i^*$  statistic score using Apache Spark and monitored cluster usage statistics in Ganglia.
- Service Oriented Application (C#, Windows Communication Foundation, HTML5, Bootstrap)** **Fall 2017**
- Developed an SOA web application with Session Management and User Authorization/Authentication using XML along with Middleware SOAP/RESTful Web API and published it to the IIS Web server for deployment and testing.
- Data Cluster Analytics (Matlab, Clustering, SVM, KNN, ANN, Classification)** **Spring 2017**
- For a given Handwritten digits' dataset, developed ensemble training model comprising of K nearest neighbor, Support vector machine and Artificial neural network using only 13% of data.
  - Performed majority voting scheme on results obtained by these models and achieved 96% accuracy.
- Secure Online Banking System (Bash, SSL, PKI, Linux)** **Fall 2016**
- Led environment security team by collaborating with ASU IT team, COMODO CA, and Namecheap.com for deployment server setup, SSL certification, PKI (Public Key Infrastructure) encryption, and Trust-Logo verification.
  - Performed vulnerability testing and bug fixing to fortify security of the system.
- Safe and Independent Living (Bayesian Networks, Python, Clingo, Tkinter)** **Fall 2017**
- Developed a system that performs probabilistic reasoning using Bayesian Networks based on information from the wireless sensor network and body sensor network installed at different locations of the house.
- Android Personal Assistant – Batroid (Java, Android Studio, Geofencing API, OpenWeather API)** **Fall 2016**
- Led project to develop a context-aware Android application with features such as Geo Do Not Disturb using Google Geofencing API to reject calls and send text replies whenever the user enters or exits a predefined location.
  - Additional features such as notifications alerts, map navigation to calendar event locations, automatic birthday wishes, and weather notifications.