Abhishek Zambre

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Education

Master of Computer Science (Arizona State University, Tempe, AZ)   **May 2018** (GPA: 3.44/4)
Bachelor of Tech. in Computer Engineering (College of Engineering, Pune, IN)   **May 2009** (GPA: 7.35/10)

Technical Skills

Programming Languages: Python, C++, Shell Scripting, Java (Android).
Full-stack Technologies: Django, Node.js, jQuery, JavaScript, HTML5, CSS3, Bootstrap.
Frameworks/Tools: Ruby on Rails, Matlab, Tkinter, Perforce, Git, Maven, ANT, Jenkins.
Databases: NoSQL (MongoDB), Relational (MySQL, Oracle, MS Access).
Relevant Courses: Distributed Database Systems, Distributed Software Development, Distributed / Multiprocessor Operating Systems, Foundations of Algorithms, Data Mining, Knowledge Representation and Reasoning, Mobile Computing, Software Security.

Professional Experience

Research Aide (Web Development) – ASU Photovoltaic Reliability Laboratory   June 2017 - Present
- Currently working on building a website for Real-Time Data Analysis and Monitoring (RTDMA).
- Web application is based on Django and will support Photovoltaic Reliability research.

Senior Software Engineer – Zimbra Inc., Pune (India)   June 2014 – July 2016
- Performed build and release activities for Zimbra Collaboration Suite and Desktop application.
- Administration of Git and Perforce, along with Linux server setup and maintenance.

Senior Subject Matter Expert – Amdocs, Pune (India)   July 2012 – June 2014
- Developed distributed system to optimize product build controller.
- Automated code repository and relevant tools setup for new phase or a project.

Subject Matter Expert – Amdocs, Pune (India)   August 2009 – July 2012
- Developed web-based Reconciliation Reporting tool (for data migration QA), AMC (Amdocs Monitoring and Control), UMB (User Master Build).
- Developed data migration framework called ADMEM (Automatic Data Migration Execution Manager).
- Provided development support for C++ based in-house tool for data migration called MigDrive.

Academic Projects

Data Mining Project – Arizona State University   Sprint 2017
- Implemented Data Mining Classification algorithms such as Artificial Neural Network, K-nearest Neighbour, Support Vector Machines, Ensemble Methods, along with Clustering algorithm such as K-means, using Matlab.
- Implemented Active Learning classification program using Uncertainty-based Sampling, and Multi-class Classification model.

Safe and Independent Living – Arizona State University   Sprint 2017
- Developed a system that performs probabilistic reasoning using Bayesian Networks based on information from wireless sensor network and body sensor network installed at different locations of the house.
- Designed and developed sensor network simulator user interface.

Fake Review Detection using Machine Learning – Arizona State University   Spring 2017
- Case study regarding detection of fake product reviews on commercial websites using Machine Learning.
- Analyzed use of Support Vector Machines in classification between genuine and fake reviews.

Secure Online Banking System – Arizona State University   Fall 2016
- Lead system environment security, by collaborating with ASU IT team, COMODO CA, and Namecheap.com for 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.

Batroid - Android Personal Assistant – Arizona State University   Fall 2016
- Lead project team to develop smart and proactive Android personal assistant application.
- Implemented geo-fencing feature using Google Geofencing API which triggers activity whenever user enters or exits predefined location radius.
- Designed and developed frontend user interface (material design) and backend SQLite database functionality.

Email Sniffer for an Enterprise – College of Engineering Pune   Fall 2009
- Developed pattern recognition module to detect attacks such as DOS (Denial of Service).
- Automated performance testing using shell scripts to generate large number of emails per second.

Hospital Management System – Government Polytechnic, Nanded   Fall 2005
- Lead team of 3 members to develop patient records and inventory management system for hospital.
- Designed and developed front-end user interface along with network connectivity.