Ankita Pise

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EDUCATION

Master of Science (Computer Science) — **Expected Graduation: May 2016**
North Carolina State University — GPA: 3.44
Bachelor of Engineering (Information Technology) — **Graduated: May 2014**
University of Mumbai — GPA: 3.85

TECHNICAL SKILLS

Languages: Java, C++, Ruby, R, HTML, CSS, JavaScript, jQuery, JSP
Database Technologies: MySQL, Oracle, MS Access
Networking Technologies: OpenFlow, OVS, GENI
Platforms: Windows OS, Mac OS x, Linux (Ubuntu 14.04)
Tools: Git, Eclipse, NetBeans, RubyMine, RStudio, Wireshark, Grunt

EXPERIENCE

Docurep, LLC - Software Developer Co-op — **January 2016 - March 2016**

- Involved in the development of Docurep's web based vendor credentialing applications.
- Developing a UI styleguide for the applications using HTML, CSS, JavaScript and jQuery with a focus on Responsive Design.
- Working on building new applications with a microservices-based architecture using AWS instances, Dockers, Java and PHP.

PROJECTS

Library Management System — **October 2015**

- Developed a web based university library management system using HTML and JSP for front-end and MySQL for back end development.
- The application had features such as searching for resources, reserving and checking out resources from the library, managing student accounts, etc. Triggers and procedures were used to implement many of these tasks.

Infographics toolkit for SAS software — **April 2015**

- Designed and built a prototype for an infographics toolkit for SAS. This toolkit provides tools to build infographics and storylines for data reports built using the SAS software.
- UI and UX for the toolkit were designed using Balsamiq wireframes and the prototype was built using HTML, JavaScript and jQuery

Predicting Power Consumption with Variations in Weather Patterns using Ensemble Learning — **April 2015**

- Built an ensemble method using R 3.1.2 for predicting the power consumption in a household with changes in the weather parameters over a period of three years.
- The performance of this method was compared with two other ensemble methods, AdaBoost and RandomForest.

Mozilla Open Source Project– Expanding the Web Developer Tools — **December 2014**

- Worked on the Mozilla research project Servo, it involved expanding the coverage of the remote web developer tools on the Servo browser engine.
- JS Error reporting, support for separated client reading and writing, and handling of various messages being sent to the developer tools server was implemented using Rust programming language.

Implementation of QoS using DiffServ and AQM Algorithm — **November 2014**

- Designed and implemented an AQM algorithm that carries out Classful Probability Marking of packets based on the class and priority of the traffic, i.e. the DSCP code in the IP header.
- The algorithm was tested on an OVS switch, the network topology for development and testing was created using GENI, traffic generation was done using IPerf, and Wireshark was used for analysis of results.

DireWolf Job Portal using Ruby on Rails — **September 2014**

- Developed a job portal using Ruby 1.9.3 and Rails 4.1.6 framework to help job seekers apply for jobs and employers look for candidates for available jobs.

Wireless Security using SSH tunneling — **April 2014**

- Developed an application using Java that aims to provide additional security to wireless networks from security threats and attacks such as packet sniffing and session hijacking using port forwarding and an SSH-like protocol.
- Published a paper on the same in International Journal of Scientific and Research Publications (IJSRP), Volume 4, Issue 4, April 2014 edition.

GRADUATE COURSEWORK

Algorithms, Object Oriented Design and Development, Internet Protocols, Network Security, Operating Systems, DBMS, Automated Learning and Data Analysis, User Experience, Human Computer Interaction, Visual Interfaces for Mobile Development.