

ROHIT N. MANDGE

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EDUCATION

North Carolina State University, Raleigh, NC Aug 2015 - Dec 2016
Masters of Science in Computer Science **GPA: 3.89/4.0**

University of Mumbai, Maharashtra, India Aug 2008 - July 2012
Bachelor of Engineering in Computer Science **GPA: 76.93%**

Courses Taken: Algorithms, Object Oriented Design and Development, Artificial Intelligence, Business Intelligence, Software Engineering, User Experience, Computer Networks, Data Intensive Computing, Data Driven Decision Making, Automated Learning and Data Analysis

TECHNICAL PROFICIENCIES

Java, Python, Shell Scripting, Ruby on Rails, R, C++, MySQL, DB2, Oracle, DynamoDB, HTML, CSS, XML, JSON, JavaScript, PHP
Windows, Linux, Mac OSX, Apache Spark, Kafka, JMS, Eclipse, NetBeans, SOAP UI, WinSCP, Putty, Jira, git, S3, Heroku

EXPERIENCE

Amazon Corporate LLC, Seattle

Software Development Engineer Intern May 2016 – Aug 2016

Technologies used: Java, DynamoDB, REST, JSON, XML, JIS, S3, EC2, Spring, JavaScript, HTML, CSS

- Designed and developed a back end service (HESS Operations Tool Service) which collects the unstructured data from services like TimberFS and Aloha, processes the data and stores the user and transaction details in DynamoDB and S3.
- Responsible for creating technical and business requirements, design, development, enhancement, testing along with its future scope in agile development. The product is live and Amazon Operations team is now able to resolve the trouble tickets 6 times faster than before using Hess Operations Tool Service.

TIBCO Software Inc., Mumbai, India

Associate Consultant Oct 2012 - July 2015

Technologies used: Java, XML/XSLT, SOAP, REST, SOA, JSON, Oracle DB, LDAP, TIBCO MDM, BW, EMS, IBM WebSphere

- Development of Security Application module in Java to provide centralized authentication using LDAP Adapter.
- Migration of employee data from AS400 legacy system to Oracle database using TIBCO AS400 Adapter and TIBCO EMS.
- Writing XML based Rule bases and shell script for applications to automate monitoring the applications, reducing the manual errors.
- Automation of entire Release Management process, which significantly reduced the deployment downtime from 6 to 1 Hour.
- Worked on a project to automate the legacy supplier systems and streamline the data of a big retail chain in United States using TIBCO Master Data Management product and technology integration (EAI) tools like TIBCO Business Works.
- Developed a middleware for parsing and validating the customer data across the different systems like SAP, PeopleSoft etc., which made the data transformation easy and safe across the different platforms via Enterprise Service Bus (ESB).
- Worked on all phases of the software development life cycle in agile methodology. Acquired extensive retail domain knowledge.
- Spearheaded a module development team of 4 developers and acted as coordinator with the client and the testing team for the production support and received special recognition for it.

ACADEMIC PROJECTS AND CONTRIBUTIONS

Detecting Bad Smells in Github using Python and Git APIs

Apr 2016 – May 2016 (<https://goo.gl/89wGca>)

Bad smells are signs of potential problems in cod. In this project, we have extracted the data from Github repositories and analyzed it. Potential bad smells have been mined from the data and an infographic representation of it has been done.

Music Recommender System using Apache Spark and Python

Dec 2015 – Jan 2016 (<https://goo.gl/yxK78E>)

This project aims to create a recommender system that will recommend new musical artists to a user based on their listening history. Suggesting different songs or musical artists to a user is important to many music streaming services, such as Pandora and Spotify.

Basic Twitter Sentiment Analytics using Apache Spark APIs and Python

Dec 2015 – Jan 2016 (<https://goo.gl/rEu9SI>)

In this project, we processed live data streams using Spark's streaming APIs and Python and performed a basic sentiment analysis of real time tweets. Software used: Apache Kafka, Python, Apache Spark.

Visual Slide Show, Hack Duke using JavaScript, MySQL, Open Source D3 charts, JSON. **Nov 2015** (<https://goo.gl/f73LTn>)

Developed a software for making data visualization easy for students during lecture. This software is designed to replace the linearly structured powerpoint slides by Sunburst Charts which improves comprehension and readability during lectures.

Online Library Management System using Ruby on Rails, HTML, CSS and Heroku. **Aug 2015 – Sept 2015** (<https://goo.gl/SWTrOC>)

This project aims to design and implement an interactive online Library Management System based on Ruby on Rails, where members can register, login, check out and return books, suggest new books and many more.

Expertiza Project: Peer Review System using Ruby on Rails, HTML, CSS, Git

Sept 2015 – Dec 2015 (<https://goo.gl/S3AeCz>)

Expertiza is an Open Source web application where students can submit and peer-review learning objects (articles, code, web sites, etc). It is used in select courses at NC State and by professors at several other colleges and universities. Implemented exponential backoff and CAPTCHA for login and password self-reset using expiry link.

IBM's The Great Mind Challenge Competition, 2010 - Online Job Portal using Java, IBM Rational, MySQL, Apache Tomcat. **Aug 2010 – Nov 2010**

This project aims to create a secure online portal for job applicants/employers and provide search engine for employees to find the jobs based on their profile, skillset and interests.

TECHNICAL PAPER PRESENTATION

Fingerprint Recognition and Classification using Artificial Neural Networks
April, 2012

My Project aims to classify fingerprints in a better way by modifying the conventional SOM (Self-Organization Maps) algorithm to improve its efficiency. The project was entirely done in MATLAB and SOM toolbox was used for classification.

RECOGNITION & RESPONSIBILITIES

- Teaching Assistant for Artificial Intelligence course in NC State University
- Awarded with IBM Blue Scholar by IBM Academic Initiative Program
- TIBCO Rookie of the Year, 2013