Neelesh Saxena

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Education

Northeastern University, Boston, MA — Sep 2015- May 2017
Masters in Information Systems
Focused coursework: Application Engineering and Development, Web Design, Web Tools and Development, Database Management and Design, Engineering Big-Data Systems, Big-Data System Engineering Using Scala, Algorithms & Data Structures, Big Data Architecture and Governance
Awards/Recognition: Awarded top of class grades for Engineering Big-Data Systems
Leadership: Graduate Senator

Narsee Monjee Institute of Management Studies, Mumbai, India — Sep 2008- May 2012
Bachelor in Computer Science
Focused coursework: Advanced Computer Architecture, Object Oriented Engineering.
Leadership: Inter-College sports coordinator

Skill Set

Programming: JAVA/J2EE Swing, SQL, PL/SQL, JavaScript, Scala
Web: HTML5, CSS3, JSP, Servlets, JSON, AJAX, JQuery, Bootstrap, Spring MVC, Hibernate, Morphia
Big Data Ecosystems: Hadoop, MapReduce, HDFS, HBase, MongoDB, Mahout, AWS EC2, Google Cloud Platform, Apache Spark
Web & Application Servers: Tomcat, Wamp, WebLogic.
Software Tools: TIBCO Business Works, TIBCO Business Events, SVN, Git, MySQL, Visual Studio 2012, SQL Server Management Studio 2012, SharePoint 2010, Spring Tools Suite, WordPress, phpMyAdmin, IntelliJ, VMware Workstation, Azure Machine Learning Studio, Neo4j, Apache Zeppelin, Docker, Play Framework, deeplearning4j, Redis, Oracle Database 11g

Work Experience

Software Developer Co-op, Norfolk & Dedham, Boston, MA — Jul 2016 – Dec 2016
Mutual Insurance Company

- Working on maintaining and enhancing a J2EE/Struts 2 web application with continuous integration deployments. Implementing the web tier on application server, Oracle's WebLogic, and using Oracle 11g Database for backend
- Identified and implemented logic in the application to reduce the number of underwriter referral calls, reducing almost 30% overhead on business
- Designing the enhancements using the industry's best practices and proven system design methodologies like reducing database calls or combining the functionalities into an interface for reusability
- Designing the application code keeping in mind the security features required for a client-server model to prevent vulnerabilities like cross site scripting and SQL Injection

Senior Systems Engineer, Infosys Ltd., Bangalore, India — Sep 2012 – May 2015
Information Technology Products & Services Company

- Developed Enterprise Class Auto Insurance Policy software using ERP Tools like TIBCO Business Events for Allstate to provide a complete business solution to clients
- Procured and analyzed the requirements from the client, for software modeling for delivery on tight deadlines aimed at enriching the customer policy experience by applying derivations using TIBCO
- Addressed high priority production defects to ensure non-recurrence. (addressed 6 major production defects) Led 2-member team to execute a complete Unit Test, making the defect count to decrease by 15%
- Optimized the software flow by integrating different lines of business, like Auto & Home, into one complete set of rules table. Implemented code change requests and enhancements

Academic Projects

Get My Flight — Oct 2016 – Dec 2016

- Built a neural network based recommendation system in Scala that successfully predicts if the domestic flight rates will fall, stay constant or rise in the future
- Implemented the deep learning Neural Network on Apache Spark using deeplearning4j library in Scala. Normalized the data for NN using R Script. Developed a Play Framework application to provide a front end, entirely in Scala, which uses an MVC pattern for the HTTP programming
- Developed an Artificial Intelligence Bot to provide a conversational user interface

Profile Based Airbnb Recommendation Application — Jun 2016 – Jul 2016

- Designed a recommendation engine that uses supervised learning techniques to predict user's future trips on the basis of their past trips and preferences
- Used Microsoft Azure to implement machine learning techniques to create a user-specific profile. The recommendation system was built on deep learning (neural networks with backpropagation). The neural network was trained to recommend house listings which coincided with the user's traits
- Developed a Spring MVC application using MongoDB and Morphia. 1.3 million house listings and user data were stored in MongoDB. The listings that were recommended to the users were fed to mongo server and were displayed in the application using Google Maps API