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Nishant Agrawal
Technical, Solution, and Data Architect

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Have 12 years of experience in analysis and design of J2EE technical solutions, data engineering, and pre-sales consulting.

Technical Skills

(Expert in <u>underlined</u> tech.)

- *Languages*: <u>Java</u>, JavaScript, <u>Python</u>, <u>Pandas</u>, <u>Numpy</u> and PLSQL

- *Frameworks*: TensorFlow, <u>Scikit-Learn</u>, Pandas, Numpy, <u>Spring</u>, MV*, JPA, Hazelcast, Lucene / SOLR

- *DB / Servers*: <u>MongoDB</u>, Oracle, Postgres, MySQL, <u>JBoss</u>, Weblogic, Apache, Tomcat

- *Others*: Docker, <u>JMS</u>, <u>ActiveMQ</u>, Git, SVN, Docker / Vagrant, Enterprise Architect, <u>Visio, Graylog, Logstash</u>

- *Domains:* B2B, Insurance, Travel, Logistics, CRM, Asset Management, Healthcare

Recent Projects

Recognize Sequence of Numbers from Images
Udacity | Aug. 2015 – present

(Git: http://bit.ly/svhnAWS)   – TensorFlow, Jupyter, Python
- Deep Convolutional Neural Network, on AWS EC2 GPU instances, to identify sequence of numbers.
- Tune Stochastic Gradient Descent using rate decay and dropout.
- Tune best prediction model for performance and achieve accuracy of 91.2%.

Recognize handwritten characters *– TensorFlow, Jupyter, Python*
Udacity | Jun. 2015 – July, 2015

(Git: http://bit.ly/tfdnn5d)
- Train a Deep Neural Network to identify handwritten digits.
- Tune Stochastic Gradient Descent using rate decay and dropout.
- Tune best prediction model for performance and achieve accuracy of 96.2%.

Lufthansa Crew Briefing- *Java8, Spring Boot, Mongo, Angular, Docker*
Nagarro | Dec. 2015 – present

(Source Code is confidential)
- Code frameworks and complex modules.
- Design technical solution based on NFRs.
- Work with Product Owners, Business Analysts, and Client Architects.
- Implement performance measurement and unit testing components.
- Review code and test cases.
- Tune application to handle 15 threads-per-second.

Prediction for Student Intervention *- Scikit Learn, Python*
Udacity | Nov. 2015 – Jan. 2015

(Git: http://bit.ly/gitdsmlndsi)
- Analyze problem domain and select data for modeling the solution.
- Pre-process data and prepare analysis models for prediction.
- Tune best prediction model for performance and achieve accuracy of 87%.

B2B Logistics Portal Upgrade - *Pre-sales, EA, Visio, AngularJS*　　　*Nagarro | Oct. 2015 – Dec. 2015*
- Published research report comparing DHL's legacy online system with industry competitors.
- Spearheaded design efforts to unlock business potential.
- Achieved cost savings of 25% over a period of 3 years, with the proposed technical solution.

Crew Meals Management - *JDK 7, Spring 4, Red Hat EAP 6.3, Hazelcast*　　*Nagarro | Sep. 2014 – Nov. 2015*
- Reduced meal-related ground-air communication traffic by 70%, and designed a hassle-free system for crew.
- Mentored development team during implementation, testing, integration, and delivery phases.
- Tuned application for 20 Threads-per-second, and achieved a response time of under 350 milli-secs.

Trade Automation - *JDK 7, Spring 3, Esper, ActiveMQ, Hibernate*　　　*Sapient | Sep. 2012 – Aug. 2014*
- Automated trading of Fixed Income instruments for a buy-side Asset Management Company.
- Managed a development team of 9 engineers, to integrate with trading desks and FX systems.

Work Experience

Nagarro - *Technical Architect*　　　　　　　　　　*Gurgaon, Frankfurt | Sep. 2014 – present*
- Accomplish excellent code quality and performance, by mentoring technical teams.
- Improve efficiency of ramp-up, proof-of-concepts, implementation, and delivery, by formalizing models.
- Boost sales-conversion with better technical solutions and cost estimates.

Work Experience (contd.)

Sapient Consulting - *Manager Technology*　　　　　　*Gurgaon | Sep. 2012 – Aug. 2014*
- Designed and delivered Fixed Income Trading Automation project.
- Contributed individually, mentored, and appraised dev team, and hired cross-functional teams.
- Amplified transactional performance with better design patterns, algorithms, and data structures.

Infogain - *Assistant Consultant*　　　　　　　*Noida, San Diego | Oct. 2008 – Aug. 2012*
- Designed and delivered a defect-free, TDD-based Auto Insurance project for Progressive, before target date.
- Managed two J2EE integration agile projects while managing team of 6 engineers.
- Executed scrum, and authored design artifacts, development plan, estimation, performance tuning.

CoreObjects (Symphony) - *Product Engineer*　　　　　　*Noida | Oct. 2007 – Sep. 2008*
- Managed a team of 3 development and QA engineers.
- Owned technology selection, requirement analyses, design, development, and code review.
- Coordinated with geographically dispersed teams across Europe, USA, and India.

Computer Sciences Corp. - *Sr. Software Engineer*　　　　*Noida　 | Mar. 2006 – Sep. 2007*
- Development engineer on Infrastructure team responsible for development of reusable J2EE components.

- Delivered enterprise integration framework for healthcare product and highly concurrent system for healthcare product of DST Healthcare Systems.

Infogain - *Software Engineer*   *Noida | Jan. 2004 – Mar. 2006*
- Worked with Imaging and Printing Group (Hewlett Packard) to provide integration solutions for CRM.
- Developed a distributed secure J2EE applications and worked to port / refactoring / tune performance of existing applications.

Education

Udacity – Machine Learning Nano Degree.	*(In-progress)*
Coursera – Machine Learning - Stanford Univ.	*(July, 2015)*
MongoDB Univ. – MongoDB for DBAs.	*(Sep. 2015)*
Aligarh Muslim Univ. – Master of Comp. Sc. and Applications.	*(76%, July 2004)*
Aligarh Muslim Univ. – Bachelor of Physics (Honors).	*(66%, July 2001)*

Awards and Certifications

Employee of the Month.	*(Nagarro, 2015)*
Award for **relationship building**.	*(Sapient, 2013)*
Most Valuable Player, Mitchell International, US.	*(Infogain, 2010)*
Best Employee at Core Objects and Infogain.	*(2008 and 2004)*
LOMA 280 certified.	*(2007)*
Scrum Alliance certified **Scrum Master** (Scrum Alliance).	*(2011)*