KRATI NAYYAR

Female, 23

EDUCATION

Year	Degree	Institute/ School	%/ CGPA
2017	MS- Computer Engineering	Virginia Polytechnic Institute and State University	3.85/4.00
2014	B.Tech - Electrical	IIT (BHU), Varanasi	8.91/10(**Top5%**)
2010	XII (CBSE)	St. Angela Sophia School	92.2%(**Top2%**)
2008	X (CBSE)	St. Angela Sophia School	92.0%(**Top2%**)

WORK EXPERIENCE

Oracle IDC	Applications Engineer	June'14 – July'15

Roles and Responsibilities	- Designed and developed **SOAP Based Web Services** for Fusion Financial Applications - Implemented complex **Application Integration Solutions** using Web Services and ADF - Designed and developed User Interface using **ADF UI components** - Improved user interactivity of Fusion Applications by run-time customization in UI & Model Layer - Single-handedly designed infrastructure and web service to transfer binary files across applications
Achievements	- Selected for important projects while being the team of newbies and acknowledged for great work **Conceptualized "Attachment"** feature to the product; appreciated by top management

Technologies	OS	Skills	Interests
Application Development Framework(ADF), MATLAB, Eclipse IDE, Oracle SQL Developer	Windows, Linux	**Java**, SQL, Object Oriented Programming	Data Structure and Algorithms, Programming, **Machine Learning, Cloud Computing**

POSITIONS OF RESPONSIBILITY

Graduate TA Virginia Tech August'15-Present	- Mentoring 60 sophomore students in the subject '**Introduction to Computer Engineering**' - Reinforce and follow up learning activity by keeping track of assignments - In charge of **Computer Engineering lab(CEL)** for undergraduate students for the course
Core Team **Prastuti,** 2013	**Pioneered** case study competition Adhyayan which saw **150 participants** from 30 colleges - Planned and executed **logistics and hospitality** for the event for 3 days; 800+ participants
Teaching Assistant IIT(BHU), 2013-14	**Mentored 100** junior students in 2 subjects for 10 months; average **grades improved** by 0.7 - Selected **out of 110 students** to assist professor owing to excellent academic performance

ACADEMIC ACHIEVEMENTS

International	"PMU Signal Prioritization for Effective Control Coordination of Load Despatch Centres" **IEEE PES General Meeting** held in **Washington,** ISBN 978-1-4799-6415-4/14	2014
National	- Publication in **ICRTES'13,** Conference proceeding by **Elsevier Science & Technology** - Ranked in **top 0.7%** of 4.7 Lakhs in **IIT-JEE** and in **top 1%** of 10 Lakhs in **AIEEE** - Awarded the **CBSE Merit Certificate** for being in the top 0.1% in Science Scores in SSE	2013 2010 2008
State	Won **Aryabhatta Science quiz** among 25 schools which participated in the same	2010
School	Awarded **Academic Brilliance** award for excellent performance in XII(CBSE)	2010

ACADEMIC PROJECTS

Network Intrusion Detection	- Machine Learning based Anomaly Detection on Yahoo Web Traffic Dataset - Consists of Point Anomaly, Step change and Frequency based Anomaly Detection	2015
Sweep Line Algorithm(SIP)	- Motivated by applications in verification of circuits designed by Intel - Implemented Segment Intersection Problem in Java; computed in O(n log n +k)	2015
B Tech Project IIT BHU & PGCIL	- Prioritized PMU Signals for effective power oscillation damping - Mentorship of Prof. R.K.Pandey of Electrical Engineering department - Monitoring real time data and deviation in smart grid data using stream data mining techniques	2013-2014
Coursera.org	**Algorithms: Design and Analysis, Part** I, from Stanford University; secured 90%	2013
I Robot	Designed Autonomous Line Following robot using Atmega 32 & AVR microcontroller in C	2011

EXTRA CURRICULAR ACTIVITIES

Diploma	**2 year Diploma in Spanish** with distinction score (Faculty of Foreign Languages(BHU))	2013
Competitions	**Winner,** among 40 teams in **Edifice-2012** paper presentation competition by **Emerson** - Secured 3rd position among 24 teams in Industry Design Problem in Prastuti	2012 2012
Elocution	Ranked 3rd in **Extempore** organized by Literary Club, IIT (BHU) among 24 participants	2011
Cultural Events	- Handpicked among 110 students for freestyle **dance** performance for **1250+ audience** - Winner, Street play out of 16 teams in Kashiyatra, national level cultural fest of IIT BHU	2011 2011
Sports	**Silver Medal,** among 32 teams in Volleyball at IIT Kanpur for two consecutive years	2010-11
Social Work	**Volunteered** in Project by Oracle "Musical Evening with Shekinah Foundation Children"	2010

Email: krati14@vt.edu   Ph.: +1 540 449 4320   LinkedIn