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## EDUCATION

<b>Indiana University</b> , Bloomington, Indiana	Expected Graduation – May 2017
Master of Science (Computer Science)	GPA – 3.31
<b>Kongu Engineering College</b> , Erode, India	April 2013
Bachelor of Engineering (Computer Science and Engineering)	GPA – 8.12

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## TECHNICAL SKILLS

<b>Programming Languages</b>	Python, Java, C/C++, JavaScript, Shell Scripting
<b>Data Tools</b>	Hadoop, Hive, Ab Initio, Apache Zookeeper, Spark
<b>Databases</b>	MySQL, Teradata, MongoDB, DB2
<b>Miscellaneous</b>	Ansible, Agile methodology & Scrum Software Development, ControlM

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## PROFESSIONAL EXPERIENCE

**Indiana University Bloomington | Bloomington, IN** August 2015 - December 2016

*Associate Instructor (Python, Ansible, Shell Scripting, MongoDB)*

- Worked under Prof. Geoffrey C Fox on his Big Data and Analytics Course as an Associate Instructor
- Implemented Bench Marking tools to setup and run projects across different cloud platforms such as Chameleon, AWS and future Grid
- Developed a Ansible deployment scripts for configuring virtual machines on Enterprise cloud provider

**Capital One Financial Services | Bangalore, India** October 2013 - June 2015

*ETL Developer (Java, Hadoop, Shell Scripting, Ab Initio, Scrum)*

- Developed Hadoop MapReduce scripts for transferring Historical Customer data from Relational databases into Hadoop clusters
  - Designed and supported real time data warehousing jobs for processing of Credit card data from external sources to Relational and Non-Relational Databases
  - Implemented a Shell based Test data generation tool to speed up the testing process in our team. This allowed the testers to spend less time on data creation which helped in speeding up team releases
  - Developed a simpler batch job design which reduced the number of standalone jobs needed for processing credit card data. This reduced the job execution time by 30% which resulted in more data processing
  - Displayed exceptional skills in Agile and Test Driven Development methodologies
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## PROGRAMMING EXPERIENCE

**Parts of Speech Tagger (Python)**

- Designed a python based POS tagger using Bayesian Network implementation and Natural Language Processing. Achieved a baseline accuracy of 90%

**Web Search Engine (Java, Apache Hadoop, Apache HBase)**

- Implemented a Web Search Engine using PageRank algorithm
- Used Apache Hadoop to build inverted page index for web links stored in HBase and designed MapReduce jobs to build inverted index tables from web links

**Speech Act Classifier (Python, NLTK)**

- Designed a classifier for speech act classification on conversational data (Telephonic and Switchboard Dialog Act Corpus)
- Modeled the classifier using Support Vector Machine (SVM) and Natural language processing

**Credit Card Defaulter and Fraud Transaction Detection (Python, Sckit)**

- Built Machine Learning models such as Decision Tree, SVM, K-Nearest Neighbor, Adaboost, Bagging, Logistic Regression and XGBoost
  - Performed comparison of each model based on their performance on credit card data to detect fraudulent transactions and credit card defaulters
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## RELATED COURSE WORK

Elements of Artificial Intelligence ♦ Cloud Computing ♦ Distributed Systems ♦ Applied Machine Learning  
Social Media Mining ♦ Information Architecture for the web ♦ Database Design