Abhishek Hemant Naik

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EDUCATION

Indiana University, Bloomington, IN, United States   August 2016 - May 2018
Master of Science in Computer Science   GPA: 3.59/4.0
Coursework: Designing of algorithms, Software Engineering, Elements of Artificial Intelligence, Big Data, Data Mining

University of Mumbai, Mumbai, MH, India   August 2009 - May 2013
Bachelor of Engineering in Computer Engineering   (Distinction)

WORK EXPERIENCE

IT Programmer and Web Developer, Indiana University, Bloomington, IN, US   January 2018 – Present
- ❑ Working with IU affiliates in a group of 3 to help them design, create and extend their **frontend** and **backend**. Working on the full lifecycle of website with 100% timely delivery while staying on budget.
- ❑ Currently using PHP, JavaScript, HTML5, CSS3, jQuery and Wordpress to generate compelling web pages.

Systems Engineer, Tata Consultancy Services Limited, Mumbai, MH, India   January 2014 – July 2016
- ❑ Elicited the requirements and developed packages and procedures in **Oracle** and **PL/SQL** to migrate the accounting data of various General Electric businesses to a new accounting system. Used **C++** and **Java** for handling backend business logic.
- ❑ Conducted knowledge sharing sessions for **rapid prototyping** & **better productivity** in **time-critical** scenarios.
- ❑ Organized and led a committee named 'Talk Club' for enhancing the **speaking** & **communication skills** of the team members.
- ❑ Helped in revenue savings of around $100,000 by **process improvement** and secured **Six Sigma Green Belt** certification.

PROJECTS

- ❑ Vehicle Detection Application (VDA) on OpenStack clouds: Spring 2017
  Adapted and enhanced a VDA built in **C++** to be **deployed dynamically** from **GitHub** using **Ansible Playbook** DevOps tool on **OpenStack** clouds. Processing was done **remotely on the clouds** using OpenCV & Cloudmesh & the results were **routed** back to the user's Linux VM.
- ❑ Mini Search engine: Spring 2017
  Implemented a mini search engine in **Java** to retrieve the top 20 documents for the entered search keyword using **Hadoop MapReduce** framework. Data was loaded using **HBase table** that was built on top of **HDFS** for faster retrieval. Implemented the **PageRank** algorithm to determine the top 20 results.
- ❑ Happening E-Market: Fall 2016
  Implemented a full stack Ecommerce website using **Java (J2EE)** working in a **team of eight** to provide a platform for startups to showcase their products. Used UML diagrams, JSP, Servlets, Java Beans, JavaScript, Bootstrap, JIRA and MVC architecture along with an Object-oriented design and Agile approach. Supported features like **inventory management**, captcha, **buying recommendations** and reporting.
- ❑ Application of Searching and Machine Learning algorithms: Fall 2017
  Developed an artificially intelligent program in **Python** to suggest the **next best move** to the 'Pichu' player. Applied **kNN** and **AdaBoost** algorithms on Flickr images to determine their orientation. Implemented **A***, **BFS** and **DFS** to find out the best routes among the major American cities. Created applications carrying out **natural language processing** using **Hidden Markov Models** to determine the parts of speech.
- ❑ Prediction of Acceptability Factor (AF):   Fall 2017
  Predicted the AF of the UCI car evaluation dataset in **R** with **98% accuracy** using Random Forest and Decision Trees. Plotted Mosaic and Box plots for **data visualization.** Also did **sentiment analysis** of Tweets in **Python** in another project.
- ❑ Unbounded Big Integer Datatype: Fall 2016
  Created a C++ **library** in Linux to overcome the lack of built-in **Big Integer** support in C++.

SKILLS

Languages: Java, C++, C, Python, SQL, R
Web Technologies: PHP, HTML5, JavaScript, CSS3, Cold Fusion, Google Analytics
Frameworks & libraries: Hadoop MapReduce, Wordpress, Bootstrap, AngularJS, jQuery
Databases and Servers: Oracle, MySQL, MS SQL Server, Apache Tomcat
Tools: Eclipse, G++, VIM, GDB, Valgrind, GIT, GCC, Linux, Ansible, Docker, OpenCV, ServiceNow